JS Cable

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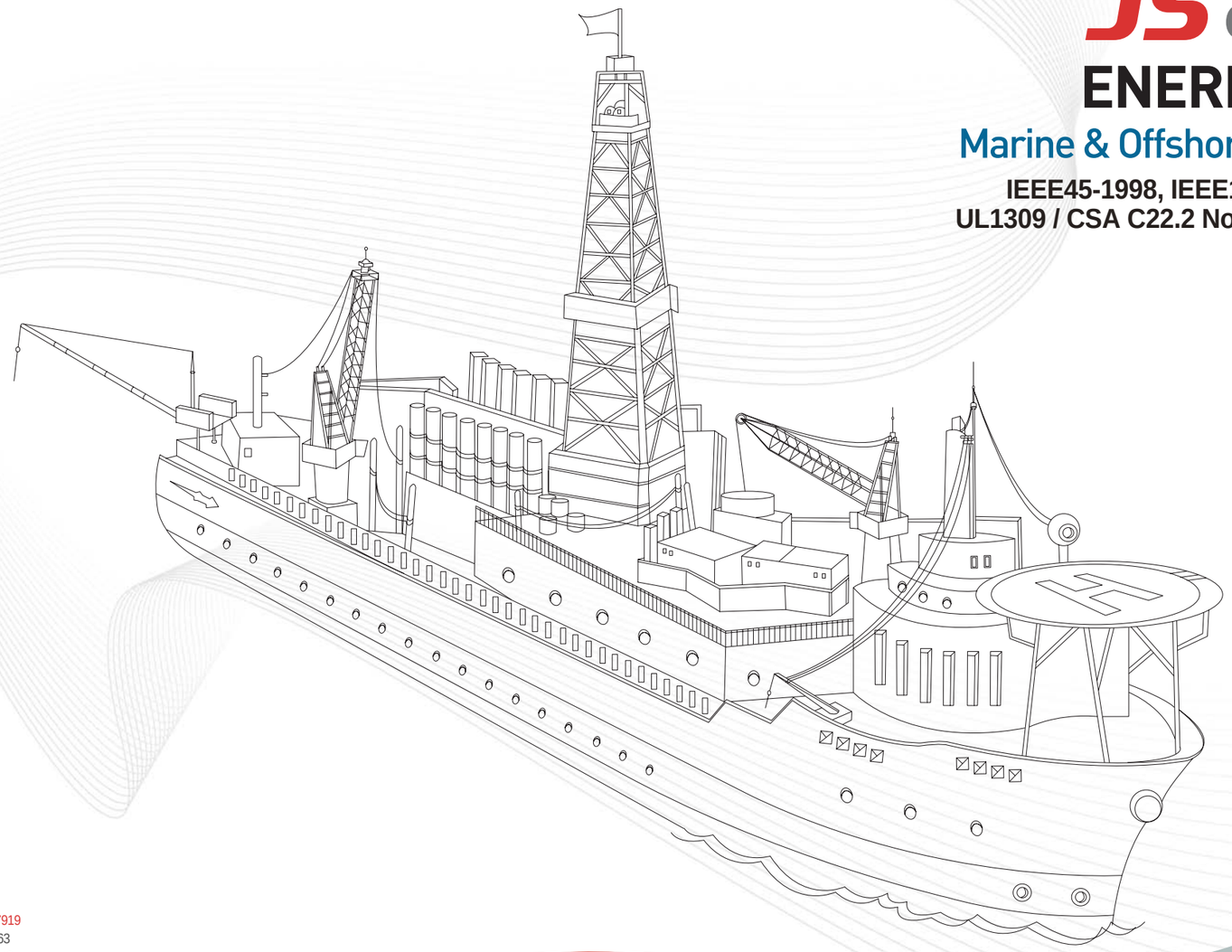
JS Cable ENERFLEX®

Marine & Offshore Cable

IEEE45-1998, IEEE1580-2001,
UL1309 / CSA C22.2 No. 245-1995



■ Products & Systems of JS Cable


Marine & Offshore Cables


Rubber & Specialty Cables


Electric Cables


Data Cables


Copper Rod

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JS Cable

The Innovative Challenger For
Your Dream

P r e f a c e

A new beginning to deliver the dream of customers - JS Cable

A new name of endless innovation and creative ideas - JS Cable

Since its foundation in 1968, JS Cable has been a pioneer in rubber cable industry and known for its excellence in quality and technology.

JS Cable is a world class leader in shipboard and offshore cable products with state of art facilities. We pursue global standard quality, safety and health and environment with full compliance of ISO 9001 (Quality Management), ISO 14001 (Environment Management) and OHSAS 18001 (Safety and Healthy working Environment Management) standards.

We continue to strive for a pace setter in cable manufacturing industry by implementing state of art R&D Center, best practice HR Program, and a new ERP initiative.

A mission to deliver light, energy, and information to global communities - JS Cable

A great leap into the future, relentless pursue for customer value - JS Cable

With our customers, we devote our full attention to make a better world tomorrow.

■ Products & Systems of JS Cable

Marine & Offshore Cables

Rubber & Specialty Cables

Electric Cables

Data Cables

Copper Rod

We supply our best quality products to markets all over the world.

Company **Profile**

1968 The company incorporated in the name of YONHAP CABLE Co., Ltd.

1978 Designated as a specialized factory for shipbuilding materials & equipment.

1984 Stock listed for public subscription.

1987 Moved to new constructed factory site located in Cheon-An.

1990 Communication cable plant completed in Mokchon.

1992 Operation of the copper smelting furnace plant commenced.

1995 ISO 9001 certification acquired (LRQA).

1996 Corporate name changed to Jinro Industries Co., Ltd.

2000 LAN cable production line started its commercial operation.

2001 TL (Telecommunication Leadership) 9000 certification acquired (LRQA).
ETL for IEEE 45 Type P Off-shore and Marine structure cables acquired.
UL for UL 1309 Type Off-shore and Marine structure cables acquired.

2002 Korean World Class Products Award for Marine Cable in 2002.
(Minister of Commerce, Industry and Energy Republic of Korea)

2004 ISO 14001 certification acquired (LRQA).

2005 OHSAS 18001 certification acquired (LRQA).
The corporate governance of the company acquired by LS Group.

2007 Corporate name changed to JS Cable Co., Ltd.

Cotents

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600V Signal Cable
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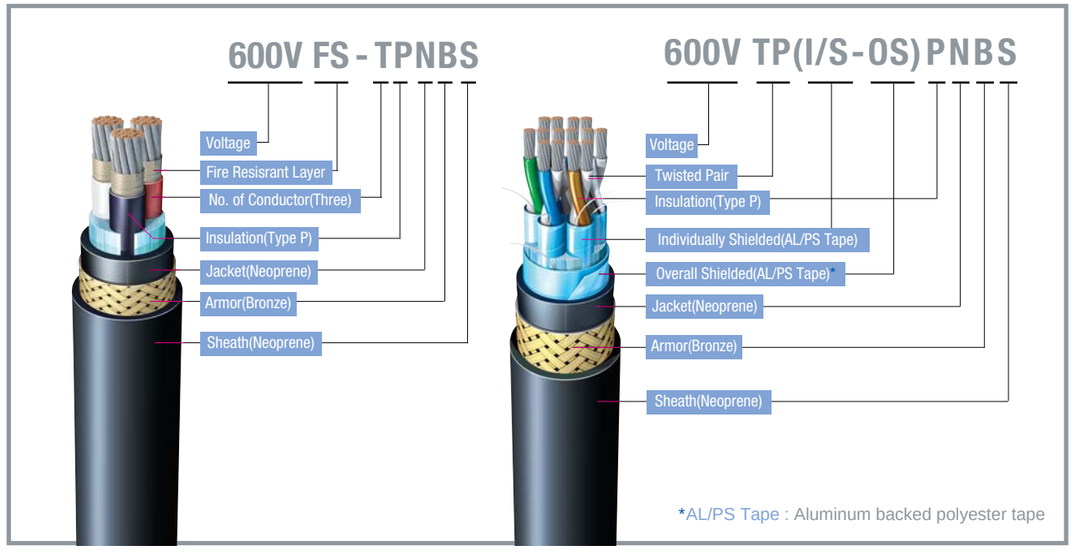
Cable Designation

According to IEEE 1580(2001), IEEE 45(1998)

Cable Type	S	Single-conductor Distribution	C	Control
	D	Two-conductor Distribution	TP	Twisted Pair
	T	Three-conductor Distribution	TT	Twisted Triad
	F	Four-conductor Distribution	FS	Fire Resistant
	Q	Five-conductor Distribution		
Group Shielding	(None)	Unshielded	(IS-OS)	Individually shielded and Overall shielded
	(OS)	Overall shield	(OBS)	Overall tinned copper braid Shielded
	(IS)	Individually shielded	(IS-OBS)	Individually Shielded and Overall Tinned Copper Braid Shielded
Insulation Type	E	Ethylene Propylene Rubber	S	Silicone Rubber
	X	Cross-linked Polyethylene	P	Cross-linked Polyolefin
	T	Polyvinyl Chloride	LSX	Low-smoke Cross-linked Polyolefin
	T/N	Polyvinyl Chloride / Nylon	LSE	Low-smoke Ethylene Propylene Rubber
Jacket and / or Sheath Type	T	Thermoplastic Polyvinyl Chloride	L	Cross-linked Polyolefin (Low-smoke)
	CP	Thermosetting Chlorosulfonated Polyethylene(Hypalon)	TPO	Thermoplastic Polyolefin (Low-smoke)
			M	Mud resistant
	N	Thermosetting Polychloroprene(neoprene)		Cross-linked Polyolefin
Armor	(None)	Unarmored	T	Tin-coated Copper
	A	Aluminum	S	Armor with Sheath
	B	Bronze		

Example



*AL/PS Tape : Aluminum backed polyester tape

Certificates Approved

ETL

ABS Type Approval program

LR

ETL DNV

USCG

CSA

UL

ENERFLEX®

Power (Distribution) Cable

»» 2kV Power(Distribution) Cable

»» 600V Power(Distribution) Cable

- Single Core Power Cable
- Two Core Power Cable
- Three Core Power Cable
- Four Core Power Cable
- Five Core Power Cable

JS Cable

2kV Power(Distribution) Cable

Cable Designation / 2kV

- SP(HD), SPA(HD), SPB(HD), SPBS(HD)
- SP, SPA, SPB, SPBS
- FS-SP(HD), FS-SPA(HD), FS-SPB(HD), FS-SPBS(HD)
- FS-SP, FS-SPA, FS-SPB, FS-SPBS

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309/CSA C 22.2 No.245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)

Application

- This cable is designed for power & lighting circuits up to 2kV.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties. (FS Type Cable Only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation : Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
- Jacket : Flame retardant thermosetting neoprene(Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309-1995
  * Jacket is not applicable to the single Core Cable
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : Flame retardant thermosetting neoprene (Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309-1995

2kV Power(Distribution) Cable

Flame Retardant Cable

Flexible rope stranding 2kV SP(HD), SPA(HD), SPB(HD), SPBS(HD)

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	4/0	532 / 0.511	14.61 / 0.575	2.67 / 0.105	2.03 / 0.080	20.9 / 0.823	1,230	22.7 / 0.894	1,460	27.0 / 1.063	1,710
	262	646 / 0.511	16.61 / 0.654	2.67 / 0.105	2.03 / 0.080	22 .4 / 0.883	1,470	24.3 / 0.957	1,710	28.6 / 1.126	1,980
	313	777 / 0.511	18.29 / 0 .720	2.67 / 0.105	2.03 / 0.080	24.1 / 0.950	1,730	26.0 / 1.024	1,990	30.3 / 1.193	2,280
	373	925 / 0.511	19.94 / 0.785	2.67 / 0.105	2.03 / 0.080	25.8 / 1.017	2,040	27.7 / 1.091	2,310	32.0 / 1.260	2,620
	444	1,110 / 0.511	21.84 / 0.860	2.67 / 0.105	2.03 / 0.080	27.7 / 1.092	2,410	29.6 / 1.165	2,700	33.9 / 1.335	3,030
	535	1,332 / 0.511	23.90 / 0.941	3.05 / 0.120	2.03 / 0.080	30.6 / 1.205	2,910	32.4 / 1.276	3,230	36.7 / 1.445	3,580
	646	1,591 / 0.511	26.14 / 1.029	3.05 / 0.120	2.03 / 0.080	32.8 / 1.291	3,430	34.6 / 1.362	3,770	38.9 / 1.531	4,150
	777	1,924 / 0.511	28.75 / 1.132	3.05 / 0.120	2.03 / 0.080	35.0 / 1.378	4,090	36.8 / 1.449	4,460	41.1 / 1.618	4,850
	1,111	2,745 / 0.511	34.39 / 1.354	3.05 / 0.120	2.79 / 0.110	40.2 / 1.583	5,710	42.0 / 1.654	6,140	47.8 / 1.882	6,750

* lbs/1,000ft(approx.)=kg/km × 0.67

Flexible rope stranding 2kV SP, SPA, SPB, SPBS

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	19 / 0.373	1.88 / 0.074	1.14 / 0.045	1.14 / 0.045	4.3 / 0.169	40	6.1 / 0.240	90	8.8 / 0.346	140
	12	19 / 0.470	2.36 / 0.093	1.14 / 0.045	1.14 / 0.045	4.8 / 0.187	50	6.6 / 0.260	110	9.3 / 0.366	160
	10	37 / 0.424	2.87 / 0.113	1.14 / 0.045	1.14 / 0.045	5.5 / 0.216	70	7.3 / 0.287	140	10.0 / 0.394	190
	8	37 / 0.511	3.45 / 0.136	1.40 / 0.055	1.14 / 0.045	6.6 / 0.258	100	8.4 / 0.331	180	11.1 / 0.437	240
	6	61 / 0.511	4.45 / 0.175	1.40 / 0.055	1.14 / 0.045	7.6 / 0.299	160	9.4 / 0.370	240	12.1 / 0.476	310
	5	91 / 0.511	6.20 / 0.244	1.40 / 0.055	1.52 / 0.060	9.5 / 0.374	230	11.3 / 0.445	330	14.7 / 0.579	440
	4	105 / 0.511	6.55 / 0.258	1.40 / 0.055	1.52 / 0.060	10.0 / 0.393	260	11.8 / 0.465	370	15.2 / 0.598	480
	3	125 / 0.511	7.32 / 0.288	1.40 / 0.055	1.52 / 0.060	10.6 / 0.417	300	12.4 / 0.488	420	15.8 / 0.622	530
	2	150 / 0.511	8.23 / 0.324	1.40 / 0.055	1.52 / 0.060	11.2 / 0.441	350	13.0 / 0.512	470	16.4 / 0.646	590
	1	209 / 0.511	9.17 / 0.361	1.65 / 0.065	1.52 / 0.060	13.2 / 0.520	490	15.0 / 0.591	630	18.4 / 0.724	760
	1/0	266 / 0.511	10.34 / 0.407	1.65 / 0.065	1.52 / 0.060	14.4 / 0.567	600	16.2 / 0.638	760	19.6 / 0.772	900
	2/0	342 / 0.511	11.71 / 0.461	1.65 / 0.065	1.52 / 0.060	15.6 / 0.614	760	17.4 / 0.685	920	20.8 / 0.819	1,080
	3/0	418 / 0.511	12.95 / 0.510	1.65 / 0.065	2.03 / 0.080	17.2 / 0.675	910	19.0 / 0.748	1,100	23.5 / 0.925	1,320
	4/0	532 / 0.511	14.61 / 0.575	1.65 / 0.065	2.03 / 0.080	18.9 / 0.743	1,140	20.7 / 0.815	1,340	25.2 / 0.992	1,590
	262	646 / 0.511	16.61 / 0.654	1.90 / 0.075	2.03 / 0.080	20.9 / 0.823	1,390	22.7 / 0.894	1,620	27.2 / 1.071	1,880
	313	777 / 0.511	18.29 / 0.720	1.90 / 0.075	2.03 / 0.080	22.6 / 0.890	1,650	24.4 / 0.961	1,900	28.9 / 1.138	2,180
	373	925 / 0.511	19.94 / 0.785	1.90 / 0.075	2.03 / 0.080	24.3 / 0.957	1,950	26.1 / 1.028	2,210	30.6 / 1.205	2,510
	444	1,110 / 0.511	21.84 / 0.860	1.90 / 0.075	2.03 / 0.080	26.2 / 1.031	2,320	28.0 / 1.102	2,590	32.5 / 1.280	2,920
	535	1,332 / 0.511	23.90 / 0.941	2.29 / 0.090	2.03 / 0.080	29.1 / 1.145	2,800	30.9 / 1.217	3,110	35.4 / 1.394	3,470
	646	1,591 / 0.511	26.14 / 1.029	2.29 / 0.090	2.03 / 0.080	31.3 / 1.231	3,320	33.1 / 1.303	3,650	37.6 / 1.480	4,030
	777	1,924 / 0.511	28.75 / 1.132	2.29 / 0.090	2.03 / 0.080	33.5 / 1.318	3,970	35.3 / 1.390	4,330	39.8 / 1.567	4,730
	1,111	2,745 / 0.511	34.39 / 1.354	2.79 / 0.110	2.79 / 0.110	39.7 / 1.562	5,670	41.5 / 1.634	6,090	47.5 / 1.870	6,720

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Class B stranding 2kV SP(HD), SPA(HD), SPB(HD), SPBS(HD)

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	4/0	19 / 2.680	13.40 / 0.528	2.67 / 0.105	2.03 / 0.080	19.0 / 0.748	1,220	20.6 / 0.811	1,420	25.3 / 0.996	1,680
	250	37 / 2.088	14.62 / 0.575	2.67 / 0.105	2.03 / 0.080	20.2 / 0.795	1,420	21.9 / 0.862	1,630	26.6 / 1.047	1,900
	300	37 / 2.286	16.00 / 0.630	2.67 / 0.105	2.03 / 0.080	21.6 / 0.850	1,670	23.2 / 0.913	1,900	27.9 / 1.098	2,180
	350	37 / 2.471	17.30 / 0.681	2.67 / 0.105	2.03 / 0.080	22.9 / 0.902	1,920	24.5 / 0.965	2,160	29.2 / 1.150	2,460
	400	37 / 2.642	18.49 / 0.728	2.67 / 0.105	2.03 / 0.080	24.1 / 0.949	2,170	25.7 / 1.012	2,420	30.4 / 1.197	2,730
	500	37 / 2.951	20.66 / 0.813	2.67 / 0.105	2.03 / 0.080	26.2 / 1.031	2,660	27.9 / 1.098	2,940	32.6 / 1.283	3,270
	600	61 / 2.520	22.68 / 0.893	3.05 / 0.120	2.03 / 0.080	29.0 / 1.142	3,210	30.7 / 1.209	3,520	35.4 / 1.394	3,890
	750	61 / 2.817	25.35 / 0.998	3.05 / 0.120	2.03 / 0.080	31.7 / 1.248	3,950	33.4 / 1.315	4,280	38.1 / 1.500	4,680
	1,000	61 / 3.251	29.26 / 1.152	3.05 / 0.120	2.03 / 0.080	35.6 / 1.402	5,170	37.3 / 1.469	5,540	42.0 / 1.654	5,980

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding 2kV SP, SPA, SPB, SPBS

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	7 / 0.615	1.84 / 0.073	1.14 / 0.045	1.14 / 0.045	4.4 / 0.173	40	6.0 / 0.236	90	8.9 / 0.350	140
	12	7 / 0.775	2.32 / 0.092	1.14 / 0.045	1.14 / 0.045	4.9 / 0.193	50	6.5 / 0.256	110	9.4 / 0.370	170
	10	7 / 0.978	2.93 / 0.116	1.14 / 0.045	1.14 / 0.045	5.5 / 0.217	80	7.1 / 0.280	140	10.0 / 0.394	200
	8	7 / 1.234	3.70 / 0.146	1.40 / 0.055	1.14 / 0.045	6.7 / 0.264	120	8.4 / 0.331	200	11.3 / 0.445	260
	7	7 / 1.384	4.15 / 0.164	1.40 / 0.055	1.14 / 0.045	7.2 / 0.283	140	8.9 / 0.350	220	11.8 / 0.465	290
	6	7 / 1.554	4.66 / 0.184	1.40 / 0.055	1.14 / 0.045	7.7 / 0.303	170	9.4 / 0.370	260	12.3 / 0.484	330
	5	7 / 1.748	5.24 / 0.206	1.40 / 0.055	1.14 / 0.045	8.3 / 0.327	210	9.9 / 0.390	300	12.8 / 0.504	380
	4	7 / 1.961	5.88 / 0.232	1.40 / 0.055	1.14 / 0.045	8.9 / 0.350	250	10.6 / 0.417	350	13.5 / 0.531	430
	3	7 / 2.202	6.61 / 0.260	1.40 / 0.055	1.52 / 0.060	9.6 / 0.378	310	11.3 / 0.445	420	14.9 / 0.587	530
	2	7 / 2.474	7.42 / 0.292	1.40 / 0.055	1.52 / 0.060	10.5 / 0.413	380	12.1 / 0.476	490	15.7 / 0.618	610
	1	19 / 1.687	8.43 / 0.332	1.65 / 0.065	1.52 / 0.060	12.0 / 0.472	480	13.6 / 0.535	610	17.2 / 0.677	740
	1/0	19 / 1.892	9.46 / 0.373	1.65 / 0.065	1.52 / 0.060	13.0 / 0.512	590	14.7 / 0.579	740	18.3 / 0.720	880
	2/0	19 / 2.126	10.63 / 0.419	1.65 / 0.065	1.52 / 0.060	14.2 / 0.559	730	15.8 / 0.622	890	19.4 / 0.764	1,040
	3/0	19 / 2.388	11.94 / 0.470	1.65 / 0.065	1.52 / 0.060	15.5 / 0.610	910	17.1 / 0.673	1,070	20.7 / 0.815	1,230
	4/0	19 / 2.680	13.40 / 0.528	1.65 / 0.065	2.03 / 0.080	16.9 / 0.665	1,120	18.6 / 0.732	1,300	23.3 / 0.917	1,530
	250	37 / 2.088	14.62 / 0.575	1.91 / 0.075	2.03 / 0.080	18.7 / 0.736	1,340	20.3 / 0.799	1,540	25.0 / 0.984	1,790
	300	37 / 2.286	16.00 / 0.630	1.91 / 0.075	2.03 / 0.080	20.1 / 0.791	1,580	21.7 / 0.854	1,790	26.4 / 1.039	2,060
	350	37 / 2.471	17.30 / 0.681	1.91 / 0.075	2.03 / 0.080	21.4 / 0.843	1,830	23.0 / 0.906	2,060	27.7 / 1.091	2,340
	400	37 / 2.642	18.49 / 0.728	1.91 / 0.075	2.03 / 0.080	22.5 / 0.886	2,070	24.2 / 0.953	2,310	28.9 / 1.138	2,610
	500	37 / 2.951	20.66 / 0.813	1.91 / 0.075	2.03 / 0.080	24.7 / 0.972	2,550	26.4 / 1.039	2,820	31.1 / 1.224	3,140
	600	61 / 2.520	22.68 / 0.893	2.29 / 0.090	2.03 / 0.080	27.5 / 1.083	3,100	29.2 / 1.150	3,390	33.9 / 1.335	3,740
	750	61 / 2.817	25.35 / 0.998	2.29 / 0.090	2.03 / 0.080	30.2 / 1.189	3,820	31.8 / 1.252	4,140	36.5 / 1.437	4,520
	1,000	61 / 3.251	29.26 / 1.152	2.29 / 0.090	2.03 / 0.080	34.1 / 1.343	5,020	35.7 / 1.406	5,380	40.4 / 1.591	5,800

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding 2kV FS-SP(HD), FS-SPA(HD), FS-SPB(HD), FS-SPBS(HD)

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	4/0	532 / 0.511	14.61 / 0.575	2.67 / 0.105	2.03 / 0.080	21.2 / 0.835	1,260	23.0 / 0.906	1,480	27.3 / 1.075	1,740
	262	646/ 0.511	16.61 / 0.654	2.67 / 0.105	2.03 / 0.080	22.8 / 0.896	1,490	24.6 / 0.969	1,740	28.9 / 1.138	2,010
	313	777 / 0.511	18.29 / 0.720	2.67 / 0.105	2.03 / 0.080	24.5 / 0.963	1,760	26.3 / 1.035	2,020	30.6 / 1.205	2,310
	373	925 / 0.511	19.94 / 0.785	2.67 / 0.105	2.03 / 0.080	26.2 / 1.030	2,070	28.0 / 1.102	2,350	32.3 / 1.272	2,650
	444	1,110 / 0.511	21.84 / 0.860	2.67 / 0.105	2.03 / 0.080	28.1 / 1.105	2,440	29.9 / 1.177	2,740	34.2 / 1.346	3,070
	535	1,332 / 0.511	23.90 / 0.941	3.05 / 0.120	2.03 / 0.080	30.9 / 1.217	2,940	32.7 / 1.287	3,270	37.0 / 1.457	3,620
	646	1,591 / 0.511	26.14 / 1.029	3.05 / 0.120	2.03 / 0.080	33.1 / 1.304	3,470	34.9 / 1.374	3,820	39.2 / 1.543	4,190
	777	1,924 / 0.511	28.75 / 1.132	3.05 / 0.120	2.03 / 0.080	35.3 / 1.391	4,130	37.1 / 1.461	4,500	41.4 / 1.630	4,900
	1,111	2,745 / 0.511	34.39 / 1.354	3.05 / 0.120	2.79 / 0.110	40.5 / 1.595	5,760	42.3 / 1.665	6,190	48.1 / 1.894	6,810

* lbs/1,000ft(approx.)=kg/km × 0.67

Flexible rope stranding 2kV FS-SP, FS-SPA, FS-SPB, FS-SPBS

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	19 / 0.373	1.88 / 0.074	1.14 / 0.045	1.14 / 0.045	4.8 / 0.189	40	6.6 / 0.260	100	9.3 / 0.366	150
	12	19 / 0.470	2.36 / 0.093	1.14 / 0.045	1.14 / 0.045	5.3 / 0.208	60	7.1 / 0.280	120	9.8 / 0.386	170
	10	7 / 0.424	2.87 / 0.113	1.14 / 0.045	1.14 / 0.045	6.0 / 0.237	80	7.8 / 0.307	150	10.5 / 0.413	210
	8	37 / 0.511	3.45 / 0.136	1.40 / 0.055	1.14 / 0.045	7.1 / 0.279	110	8.9 / 0.350	190	11.6 / 0.457	260
	6	1 / 0.511	4.45 / 0.175	1.40 / 0.055	1.14 / 0.045	8.1 / 0.319	170	9.9 / 0.390	260	12.6 / 0.496	330
	5	91 / 0.511	6.20 / 0.244	1.40 / 0.055	1.52 / 0.060	9.8 / 0.386	240	11.6 / 0.457	350	15.0 / 0.591	450
	4	105 / 0.511	6.55 / 0.258	1.40 / 0.055	1.52 / 0.060	10.3 / 0.406	270	12.1 / 0.476	380	15.5 / 0.610	490
	3	125 / 0.511	7.32 / 0.288	1.40 / 0.055	1.52 / 0.060	10.9 / 0.430	310	12.7 / 0.500	430	16.1 / 0.634	550
	2	150 / 0.511	8.23 / 0.324	1.40 / 0.055	1.52 / 0.060	11.5 / 0.453	360	13.3 / 0.524	490	16.7 / 0.657	610
	1	209 / 0.511	9.17 / 0.361	1.65 / 0.065	1.52 / 0.060	13.5 / 0.532	500	15.3 / 0.602	650	18.7 / 0.736	780
	1/0	266 / 0.511	10.34 / 0.407	1.65 / 0.065	1.52 / 0.060	14.7 / 0.580	620	16.5 / 0.650	780	19.9 / 0.783	930
	2/0	342 / 0.511	11.71 / 0.461	1.65 / 0.065	2.03 / 0.080	15.9 / 0.627	770	17.7 / 0.697	950	22.2 / 0.874	1,160
	3/0	418 / 0.511	12.95 / 0.510	1.65 / 0.065	2.03 / 0.080	17.5 / 0.688	930	19.3 / 0.760	1,120	23.8 / 0.937	1,350
	4/0	532 / 0.511	14.61 / 0.575	1.65 / 0.065	2.03 / 0.080	19.2 / 0.755	1,160	21.0 / 0.827	1,370	25.5 / 1.004	1,620
	262	646 / 0.511	16.61 / 0.654	1.90 / 0.075	2.03 / 0.080	21.2 / 0.835	1,420	23.0 / 0.906	1,640	27.5 / 1.083	1,910
	313	777 / 0.511	18.29 / 0.720	1.90 / 0.075	2.03 / 0.080	22.9 / 0.902	1,680	24.7 / 0.972	1,930	29.2 / 1.150	2,210
	373	925 / 0.511	19.94 / 0.785	1.90 / 0.075	2.03 / 0.080	24.6 / 0.969	1,980	26.4 / 1.039	2,240	30.9 / 1.217	2,550
	444	1110 / 0.511	21.84 / 0.860	1.90 / 0.075	2.03 / 0.080	26.5 / 1.044	2,350	28.3 / 1.114	2,630	32.8 / 1.291	2,960
	535	1332 / 0.511	23.90 / 0.941	2.29 / 0.090	2.03 / 0.080	29.4 / 1.157	2,840	31.2 / 1.228	3,150	35.7 / 1.406	3,510
	646	1591 / 0.511	26.14 / 1.029	2.29 / 0.090	2.03 / 0.080	31.6 / 1.244	3,360	33.4 / 1.315	3,690	37.9 / 1.492	4,070
	777	1924 / 0.511	28.75 / 1.132	2.29 / 0.090	2.03 / 0.080	33.8 / 1.331	4,010	35.6 / 1.402	4,370	40.1 / 1.579	4,770
	1,111	2745 / 0.511	34.39 / 1.354	2.79 / 0.110	2.79 / 0.110	40.0 / 1.575	5,720	41.8 / 1.646	6,140	47.8 / 1.882	6,770

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Class B stranding 2kV FS-SP(HD), FS-SPA(HD), FS-SPB(HD), FS-SPBS(HD)

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	4/0	19 / 2.680	13.40 / 0.528	2.67 / 0.105	2.03 / 0.080	19.7 / 0.776	1,250	21.4 / 0.843	1,460	26.1 / 1.028	1,730
	250	37 / 2.088	14.62 / 0.575	2.67 / 0.105	2.03 / 0.080	20.9 / 0.823	1,450	22.6 / 0.890	1,670	27.3 / 1.075	1,950
	300	37 / 2.286	16.00 / 0.630	2.67 / 0.105	2.03 / 0.080	22.3 / 0.878	1,700	24.0 / 0.945	1,940	28.7 / 1.130	2,230
	350	37 / 2.471	17.30 / 0.681	2.67 / 0.105	2.03 / 0.080	23.6 / 0.929	1,960	25.3 / 0.996	2,210	30.0 / 1.181	2,510
	400	37 / 2.642	18.49 / 0.728	2.67 / 0.105	2.03 / 0.080	24.8 / 0.976	2,210	26.5 / 1.043	2,470	31.2 / 1.228	2,790
	500	37 / 2.951	20.66 / 0.813	2.67 / 0.105	2.03 / 0.080	27.0 / 1.063	2,700	28.6 / 1.126	2,990	33.3 / 1.311	3,330
	600	61 / 2.520	22.68 / 0.893	3.05 / 0.120	2.03 / 0.080	29.7 / 1.169	3,260	31.4 / 1.236	3,570	36.1 / 1.421	3,950
	750	61 / 2.817	25.35 / 0.998	3.05 / 0.120	2.03 / 0.080	32.4 / 1.276	4,000	34.1 / 1.343	4,340	38.8 / 1.528	4,750
	1,000	61 / 3.251	29.26 / 1.152	3.05 / 0.120	2.79 / 0.110	36.3 / 1.429	5,220	38.0 / 1.496	5,610	44.2 / 1.740	6,210

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding 2kV FS-SP, FS-SPA, FS-SPB, FS-SPBS

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	7 / 0.615	1.84 / 0.073	1.14 / 0.045	1.14 / 0.045	5.0 / 0.197	50	6.7 / 0.264	100	9.6 / 0.378	160
	12	7 / 0.775	2.32 / 0.092	1.14 / 0.045	1.14 / 0.045	5.5 / 0.217	60	7.1 / 0.280	120	10.0 / 0.394	180
	10	7 / 0.978	2.93 / 0.116	1.14 / 0.045	1.14 / 0.045	6.1 / 0.240	80	7.7 / 0.303	150	10.6 / 0.417	210
	8	7 / 1.234	3.70 / 0.146	1.40 / 0.055	1.14 / 0.045	7.4 / 0.291	130	9.0 / 0.354	210	11.9 / 0.469	280
	7	7 / 1.384	4.15 / 0.164	1.40 / 0.055	1.14 / 0.045	7.8 / 0.307	150	9.5 / 0.374	240	12.4 / 0.488	310
	6	7 / 1.554	4.66 / 0.184	1.40 / 0.055	1.14 / 0.045	8.3 / 0.327	180	10.0 / 0.394	270	12.9 / 0.508	350
	5	7 / 1.748	5.24 / 0.206	1.40 / 0.055	1.52 / 0.060	9.0 / 0.354	220	10.7 / 0.421	320	14.3 / 0.563	420
	4	7 / 1.961	5.88 / 0.232	1.40 / 0.055	1.52 / 0.060	9.6 / 0.378	260	11.3 / 0.445	370	14.9 / 0.587	480
	3	7 / 2.202	6.61 / 0.260	1.40 / 0.055	1.52 / 0.060	10.4 / 0.409	320	12.0 / 0.472	430	15.6 / 0.614	550
	2	7 / 2.474	7.42 / 0.292	1.40 / 0.055	1.52 / 0.060	11.2 / 0.441	390	12.8 / 0.504	510	16.4 / 0.646	640
	1	19 / 1.687	8.43 / 0.332	1.65 / 0.065	1.52 / 0.060	12.7 / 0.500	500	14.4 / 0.567	630	18.0 / 0.709	770
	1/0	19 / 1.892	9.46 / 0.373	1.65 / 0.065	1.52 / 0.060	13.7 / 0.539	610	15.4 / 0.606	750	19.0 / 0.748	900
	2/0	19 / 2.126	10.63 / 0.419	1.65 / 0.065	1.52 / 0.060	14.9 / 0.587	750	16.6 / 0.654	910	20.2 / 0.795	1,060
	3/0	19 / 2.388	11.94 / 0.470	1.65 / 0.065	2.03 / 0.080	16.2 / 0.638	920	17.9 / 0.705	1,090	22.6 / 0.890	1,,320
	4/0	19 / 2.680	13.40 / 0.528	1.65 / 0.065	2.03 / 0.080	17.7 / 0.697	1,140	19.3 / 0.760	1,320	24.0 / 0.945	1,570
	250	37 / 2.088	14.62 / 0.575	1.91 / 0.075	2.03 / 0.080	19.4 / 0.764	1,350	21.1 / 0.831	1,560	25.8 / 1.016	1,820
	300	37 / 2.286	16.00 / 0.630	1.91 / 0.075	2.03 / 0.080	20.8 / 0.819	1,600	22.4 / 0.882	1,820	27.1 / 1.067	2,090
	350	37 / 2.471	17.30 / 0.681	1.91 / 0.075	2.03 / 0.080	22.1 / 0.870	1,840	23.7 / 0.933	2,080	28.4 / 1.118	2,370
	400	37 / 2.642	18.49 / 0.728	1.91 / 0.075	2.03 / 0.080	23.3 / 0.917	2,090	24.9 / 0.980	2,340	29.6 / 1.165	2,640
	500	37 / 2.951	20.66 / 0.813	1.91 / 0.075	2.03 / 0.080	25.4 / 1.000	2,570	27.1 / 1.067	2,840	31.8 / 1.252	3,170
	600	61 / 2.520	22.68 / 0.893	2.29 / 0.090	2.03 / 0.080	28.2 / 1.110	3,110	29.9 / 1.177	3,410	34.6 / 1.362	3,770
	750	61 / 2.817	25.35 / 0.998	2.29 / 0.090	2.03 / 0.080	30.9 / 1.217	3,840	32.5 / 1.280	4,170	37.2 / 1.465	4,550
	1,000	61 / 3.251	29.26 / 1.152	2.29 / 0.090	2.03 / 0.080	34.8 / 1.370	5,040	36.5 / 1.437	5,410	41.2 / 1.622	5,840

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Power (Distribution) Cable

Cable Designation / 600V

- S(D/T/F/Q)P, S(D/T/F/Q)PA, S(D/T/F/Q)PB, S(D/T/F/Q)PBS
  D(T/F/Q)PN, D(T/F/Q)PNA, D(T/F/Q)PNB, D(T/F/Q)PNBS
- S(D/T/F/Q)LSEL, S(D/T/F/Q)LSELA
  S(D/T/F/Q)LSELB, S(D/T/F/Q)LSELBS
- S(D/T/F/Q)PM, S(D/T/F/Q)PMA,S(D/T/F/Q)PMB,
  S(D/T/F/Q)PMBS

(*) Prefix "FS-" in case of Fire resistant cable.

Application Standard

- IEEE Std. 1580(2001), 45(1998)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)
- NEK 606

Application

- This cable is designed for power & lighting circuitsup to 600V.
- Suitable for use in commercial marine applications, MODU°s and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties. (FS Type Cable Only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable Only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin(Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE) according to IEEE 1580-2001, IEEE 45-1998 & UL1309(TypeE)
- Jacket
  - Flame retardant thermosetting neoprene(Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309
  - Flame retardant low smoke XLPO(Type L) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC 60092-359 & NEK 606

  * Jacket is not applicable to the single core cable
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Single Core Power Cable
Flame Retardant Cable

Flexible rope stranding 600V SP, SPA, SPB, SPBS

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	3.5 / 0.139	30	5.3 / 0.209	70	8.0 / 0.315	120
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	4.0 / 0.157	40	5.8 / 0.228	90	8.5 / 0.335	140
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	4.7 / 0.186	60	6.5 / 0.256	120	9.2 / 0.362	170
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.14 / 0.045	6.1 / 0.239	100	7.9 / 0.311	170	10.6 / 0.417	230
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.14 / 0.045	7.1 / 0.279	150	8.9 / 0.350	230	11.6 / 0.457	300
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	1.52 / 0.060	9.0 / 0.354	220	10.8 / 0.425	320	14.2 / 0.559	420
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	1.52 / 0.060	9.5 / 0.374	240	11.3 / 0.445	350	14.7 / 0.579	460
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	1.52 / 0.060	10.1 / 0.397	290	11.9 / 0.469	400	15.3 / 0.602	510
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	340	12.5 / 0.492	460	15.9 / 0.626	570
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	1.52 / 0.060	12.7 / 0.500	470	14.5 / 0.571	610	17.9 / 0.705	740
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	1.52 / 0.060	13.9 / 0.547	590	15.7 / 0.618	740	19.1 / 0.752	880
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	1.52 / 0.060	15.1 / 0.594	740	16.9 / 0.665	900	20.3 / 0.799	1,050
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.03 / 0.080	16.6 / 0.655	890	18.5 / 0.728	1,070	23.0 / 0.906	1,290
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.03 / 0.080	18.4 / 0.722	1,120	20.2 / 0.795	1,320	24.7 / 0.972	1,560
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.03 / 0.080	20.4 / 0.803	1,370	22.2 / 0.874	1,590	26.7 / 1.051	1,850
	313	777 / 0.511	18.29 / 0.720	1.65 / 0.065	2.03 / 0.080	22.1 / 0.870	1,630	23.9 / 0.941	1,870	28.4 / 1.118	2,140
	373	925 / 0.511	19.94 / 0.785	1.65 / 0.065	2.03 / 0.080	23.8 / 0.937	1,920	25.6 / 1.008	2,180	30.1 / 1.185	2,470
	444	1110 / 0.511	21.84 / 0.860	1.65 / 0.065	2.03 / 0.080	25.7 / 1.012	2,290	27.5 / 1.083	2,560	32.0 / 1.260	2,880
	535	1332 / 0.511	23.90 / 0.941	2.03 / 0.080	2.03 / 0.080	28.6 / 1.124	2,770	30.4 / 1.197	3,070	34.9 / 1.374	3,420
	646	1591 / 0.511	26.14 / 1.029	2.03 / 0.080	2.03 / 0.080	30.8 / 1.211	3,280	32.6 / 1.283	3,610	37.1 / 1.461	3,980
	777	1924 / 0.511	28.75 / 1.132	2.03 / 0.080	2.03 / 0.080	33.0 / 1.298	3,930	34.8 / 1.370	4,280	39.3 / 1.547	4,680
	1,111	2745 / 0.511	34.39 / 1.354	2.41 / 0.095	2.79 / 0.110	38.9 / 1.532	5,600	40.7 / 1.602	6,010	46.7 / 1.839	6,630

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding 600V SP, SPA, SPB, SPBS

No. of cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	3.6 / 0.142	30	5.3 / 0.209	80	8.2 / 0.323	120
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	4.1 / 0.161	50	5.8 / 0.228	90	8.7 / 0.343	140
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	4.7 / 0.185	70	6.4 / 0.252	120	9.3 / 0.366	180
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.14 / 0.045	6.2 / 0.244	110	7.9 / 0.311	180	10.8 / 0.425	250
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.14 / 0.045	6.7 / 0.264	130	8.3 / 0.327	210	11.2 / 0.441	270
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.14 / 0.045	7.2 / 0.283	160	8.9 / 0.350	240	11.8 / 0.465	310
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.14 / 0.045	7.8 / 0.307	200	9.4 / 0.370	280	12.3 / 0.484	360
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	1.14 / 0.045	8.4 / 0.331	240	10.1 / 0.398	330	13.0 / 0.512	410
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	1.52 / 0.060	9.1 / 0.358	300	10.8 / 0.425	400	14.4 / 0.567	500
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	1.52 / 0.060	10.0 / 0.394	370	11.6 / 0.457	470	15.2 / 0.598	590
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	1.52 / 0.060	11.5 / 0.453	470	13.1 / 0.516	590	16.7 / 0.657	720
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	1.52 / 0.060	12.5 / 0.492	580	14.2 / 0.559	710	17.8 / 0.701	850
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	1.52 / 0.060	13.7 / 0.539	710	15.3 / 0.602	860	18.9 / 0.744	1,010
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	1.52 / 0.060	15.0 / 0.591	880	16.6 / 0.654	1,050	20.2 / 0.795	1,200
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.03 / 0.080	16.4 / 0.646	1,100	18.1 / 0.713	1,270	22.8 / 0.898	1,500
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.03 / 0.080	18.2 / 0.717	1,310	19.8 / 0.780	1,510	24.5 / 0.965	1,750
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.03 / 0.080	19.5 / 0.768	1,550	21.2 / 0.835	1,760	25.9 / 1.020	2,020
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.03 / 0.080	20.8 / 0.819	1,800	22.5 / 0.886	2,020	27.2 / 1.071	2,300
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.03 / 0.080	22.0 / 0.866	2,040	23.7 / 0.933	2,270	28.4 / 1.118	2,560
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.03 / 0.080	24.2 / 0.953	2,520	25.9 / 1.020	2,780	30.6 / 1.205	3,090
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	3,060	28.6 / 1.126	3,340	33.3 / 1.311	3,690
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	3,780	31.3 / 1.232	4,100	36.0 / 1.417	4,470
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	2.03 / 0.080	33.6 / 1.323	4,980	35.2 / 1.386	5,330	39.9 / 1.571	5,750

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding 600V FS-SP, FS-SPA, FS-SPB, FS-SPBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	4.0 / 0.159	30	5.9 / 0.232	80	8.6 / 0.339	130
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	4.5 / 0.178	50	6.3 / 0.248	100	9.0 / 0.354	150
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	5.2 / 0.206	70	7.1 / 0.280	130	9.8 / 0.386	190
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.14 / 0.045	6.6 / 0.259	100	8.4 / 0.331	180	11.1 / 0.437	240
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.14 / 0.045	7.6 / 0.300	160	9.4 / 0.370	240	12.1 / 0.476	310
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	1.52 / 0.060	9.3 / 0.367	230	11.1 / 0.437	330	14.5 / 0.571	430
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	1.52 / 0.060	9.8 / 0.386	260	11.6 / 0.457	370	15.0 / 0.591	470
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	1.52 / 0.060	10.4 / 0.410	300	12.2 / 0.480	410	15.6 / 0.614	520
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	350	12.8 / 0.504	470	16.2 / 0.638	590
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	1.52 / 0.060	13.0 / 0.512	490	14.8 / 0.583	630	18.2 / 0.717	760
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	1.52 / 0.060	14.2 / 0.559	600	16.0 / 0.630	760	19.4 / 0.764	900
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	1.52 / 0.060	15.4 / 0.607	760	17.2 / 0.677	920	20.6 / 0.811	1,080
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.03 / 0.080	17.0 / 0.668	910	18.8 / 0.740	1,100	23.3 / 0.917	1,320
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.03 / 0.080	18.7 / 0.735	1,140	20.5 / 0.807	1,340	25.0 / 0.984	1,580
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.03 / 0.080	20.7 / 0.816	1,390	22.5 / 0.886	1,610	27.0 / 1.063	1,880
	313	777 / 0.511	18.29 / 0.720	1.65 / 0.065	2.03 / 0.080	22.4 / 0.883	1,660	24.2 / 0.953	1,900	28.7 / 1.130	2,180
	373	925 / 0.511	19.94 / 0.785	1.65 / 0.065	2.03 / 0.080	24.1 / 0.950	1,950	25.9 / 1.020	2,210	30.4 / 1.197	2,510
	444	1110 / 0.511	21.84 / 0.860	1.65 / 0.065	2.03 / 0.080	26.0 / 1.024	2,320	27.8 / 1.094	2,600	32.3 / 1.272	2,920
	535	1332 / 0.511	23.90 / 0.941	2.03 / 0.080	2.03 / 0.080	28.9 / 1.137	2,810	30.7 / 1.209	3,110	35.2 / 1.386	3,460
	646	1591 / 0.511	26.14 / 1.029	2.03 / 0.080	2.03 / 0.080	31.1 / 1.224	3,320	32.9 / 1.295	3,650	37.4 / 1.472	4,020
	777	1924 / 0.511	28.75 / 1.132	2.03 / 0.080	2.03 / 0.080	33.3 / 1.310	3,970	35.1 / 1.382	4,330	39.6 / 1.559	4,720
	1,111	2745 / 0.511	34.39 / 1.354	2.41 / 0.095	2.79 / 0.110	39.2 / 1.545	5,650	41.1 / 1.618	6,060	47.1 / 1.854	6,690

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding 600V FS-SP, FS-SPA, FS-SPB, FS-SPBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia.(max.)			Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	4.2 / 0.165	40	5.9 / 0.232	90	8.8 / 0.346	140
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	4.7 / 0.185	50	6.4 / 0.252	110	9.3 / 0.366	160
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	5.3 / 0.209	70	7.0 / 0.276	140	9.9 / 0.390	190
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.14 / 0.045	6.9 / 0.272	120	8.5 / 0.335	200	11.4 / 0.449	270
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.14 / 0.045	7.3 / 0.287	140	9.0 / 0.354	230	11.9 / 0.469	300
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.14 / 0.045	7.8 / 0.307	170	9.5 / 0.374	260	12.4 / 0.488	340
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.14 / 0.045	8.5 / 0.335	210	10.2 / 0.402	310	13.1 / 0.516	390
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	1.52 / 0.060	9.1 / 0.358	260	10.8 / 0.425	360	14.4 / 0.567	460
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	1.52 / 0.060	9.9 / 0.390	310	11.5 / 0.453	420	15.1 / 0.594	530
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	380	12.3 / 0.484	500	15.9 / 0.626	620
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	1.52 / 0.060	12.2 / 0.480	490	13.9 / 0.547	620	17.5 / 0.689	750
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	1.52 / 0.060	13.2 / 0.520	600	14.9 / 0.587	740	18.5 / 0.728	880
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	1.52 / 0.060	14.4 / 0.567	740	16.0 / 0.630	890	19.6 / 0.772	1,040
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	1.52 / 0.060	15.7 / 0.618	910	17.4 / 0.685	1,080	21.0 / 0.827	1,240
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.03 / 0.080	17.2 / 0.677	1,120	18.8 / 0.740	1,310	23.5 / 0.925	1,540
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.03 / 0.080	18.9 / 0.744	1,340	20.5 / 0.807	1,540	25.2 / 0.992	1,800
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.03 / 0.080	20.3 / 0.799	1,580	21.9 / 0.862	1,800	26.6 / 1.047	2,070
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.03 / 0.080	21.6 / 0.850	1,830	23.2 / 0.913	2,060	27.9 / 1.098	2,350
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.03 / 0.080	22.8 / 0.898	2,080	24.4 / 0.961	2,320	29.1 / 1.146	2,620
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.03 / 0.080	24.9 / 0.980	2,560	26.6 / 1.047	2,820	31.3 / 1.232	3,140
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.03 / 0.080	27.7 / 1.091	3,100	29.4 / 1.157	3,400	34.1 / 1.343	3,750
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	2.03 / 0.080	30.4 / 1.197	3,830	32.0 / 1.260	4,150	36.7 / 1.445	4,530
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	2.03 / 0.080	34.3 / 1.350	5,030	35.9 / 1.413	5,390	40.6 / 1.598	5,820

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Flexible rope stranding

- 600V SLSEL, SLSELA, SLSELB, SLSELBS
- 600V SPM, SPMA, SPMB, SPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	6.0 / 0.236	60	7.8 / 0.307	130	10.5 / 0.413	190
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	6.5 / 0.256	80	8.3 / 0.327	150	11.0 / 0.433	210
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	7.2 / 0.283	100	9.0 / 0.354	180	11.7 / 0.461	250
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.14 / 0.045	1.14 / 0.045	8.6 / 0.339	140	10.4 / 0.409	240	13.1 / 0.516	320
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	200	11.4 / 0.449	310	14.8 / 0.583	410
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	11.5 / 0.453	280	13.3 / 0.524	410	16.7 / 0.657	530
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	12.0 / 0.472	310	13.8 / 0.543	440	17.2 / 0.677	570
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	12.6 / 0.496	360	14.4 / 0.567	490	17.8 / 0.701	620
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	410	15.0 / 0.591	560	18.4 / 0.724	690
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	580	17.7 / 0.697	750	22.2 / 0.874	970
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	17.1 / 0.673	710	18.9 / 0.744	890	23.4 / 0.921	1,120
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	18.3 / 0.720	870	20.1 / 0.791	1,070	24.6 / 0.969	1,300
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	1,030	21.6 / 0.850	1,250	26.1 / 1.028	1,500
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	1,340	24.5 / 0.965	1,580	29.0 / 1.142	1,860
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	24.7 / 0.972	1,,600	26.5 / 1.043	1,860	31.0 / 1.220	2,170
	313	777 / 0.511	18.29 / 0.720	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	26.4 / 1.039	1,880	28.2 / 1.110	2,160	32.7 / 1.287	2,480
	373	925 / 0.511	19.94 / 0.785	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	2,190	29.9 / 1.177	2,490	34.4 / 1.354	2,830
	444	1,110 / 0.511	21.84 / 0.860	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	30.0 / 1.181	2,580	31.8 / 1.252	2,890	36.3 / 1.429	3,260
	535	1,332 / 0.511	23.90 / 0.941	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	3,090	34.7 / 1.366	3,440	39.2 / 1.543	3,830
	646	1,591 / 0.511	26.14 / 1.029	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	35.1 / 1.382	3,620	36.9 / 1.453	3,990	41.4 / 1.630	4,410
	777	1,924 / 0.511	28.75 / 1.132	2.03 / 0.080	2.03 / 0.080	2.79 / 0.110	37.3 / 1.469	4,300	39.1 / 1.539	4,690	45.1 / 1.776	5,290
	1,111	2,745 / 0.511	34.39 / 1.354	2.41 / 0.095	2.79 / 0.110	2.79 / 0.110	44.7 / 1.760	6,170	46.5 / 1.831	6,640	52.5 / 2.067	7,340

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

- 600V SLSEL, SLSELA, SLSELB, SLSELBS
- 600V SPM, SPMA, SPMB, SPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	6.1 / 0.240	60	7.9 / 0.311	130	10.6 / 0.417	190
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	6.6 / 0.260	80	8.4 / 0.331	160	11.1 / 0.437	220
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	7.2 / 0.283	100	9.0 / 0.354	190	11.7 / 0.461	250
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.14 / 0.045	1.14 / 0.045	8.7 / 0.343	160	10.5 / 0.413	260	13.0 / 0.512	320
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	9.1 / 0.358	180	10.9 / 0.429	280	14.1 / 0.555	380
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	220	11.5 / 0.453	320	14.7 / 0.579	420
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	250	12.0 / 0.472	370	15.2 / 0.598	470
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	10.9 / 0.429	300	12.7 / 0.500	420	15.9 / 0.626	530
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	360	13.4 / 0.528	490	16.6 / 0.654	600
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	440	14.2 / 0.559	570	17.4 / 0.685	690
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	570	16.4 / 0.646	730	19.6 / 0.772	870
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	690	17.5 / 0.689	860	20.7 / 0.815	1,000
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	830	18.6 / 0.732	1,020	22.9 / 0.902	1,230
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	18.1 / 0.713	1,020	19.9 / 0.783	1,210	24.2 / 0.953	1,430
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	1,240	21.4 / 0.843	1,450	25.7 / 1.012	1,690
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	1,530	24.2 / 0.953	1,770	28.5 / 1.122	2,030
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	23.8 / 0.937	1,780	25.6 / 1.008	2,040	29.9 / 1.177	2,320
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	25.1 / 0.988	2,040	26.9 / 1.059	2,310	31.2 / 1.228	2,610
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	26.3 / 1.035	2,300	28.1 / 1.106	2,580	32.4 / 1.276	2,890
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	28.5 / 1.122	2,800	30.3 / 1.193	3,100	34.6 / 1.362	3,430
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	31.2 / 1.228	3,360	33.0 / 1.299	3,690	37.3 / 1.469	4,050
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	33.9 / 1.335	4,120	35.7 / 1.406	4,470	40.0 / 1.575	4,860
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	2.03 / 0.080	2.79 / 0.110	37.8 / 1.488	5,350	39.6 / 1.559	5,750	45.4 / 1.787	6,330

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

- 600V FS-SLSEL, FS-SLSELA, FS-SLSELB, FS-SLSELBS
- 600V FS-SPM, FS-SPMA, FS-SPMB, FS-SPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	6.5 / 0.256	70	8.3 / 0.327	140	11.0 / 0.433	200
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	7.0 / 0.276	80	8.8 / 0.346	160	11.5 / 0.453	230
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	7.7 / 0.303	110	9.5 / 0.374	200	12.2 / 0.480	270
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	9.1 / 0.358	150	10.9 / 0.429	260	14.3 / 0.563	360
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	10.1 / 0.398	210	11.9 / 0.469	320	15.3 / 0.602	430
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	11.8 / 0.465	290	13.6 / 0.535	420	17.0 / 0.669	540
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	12.3 / 0.484	320	14.1 / 0.555	460	17.5 / 0.689	590
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	12.9 / 0.508	370	14.7 / 0.579	510	18.1 / 0.713	640
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	450	16.0 / 0.630	600	19.4 / 0.764	740
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	16.2 / 0.638	600	18.0 / 0.709	770	22.5 / 0.886	990
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	730	19.2 / 0.756	910	23.7 / 0.933	1,140
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	890	20.4 / 0.803	1,090	24.9 / 0.980	1,330
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	1,060	22.0 / 0.866	1,280	26.5 / 1.043	1,530
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	1,360	24.8 / 0.976	1,610	29.3 / 1.154	1,890
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	25.0 / 0.984	1,630	26.8 / 1.055	1,890	31.3 / 1.232	2,200
	313	777 / 0.511	18.29 / 0.720	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	26.7 / 1.051	1,910	28.5 / 1.122	2,190	33.0 / 1.299	2,520
	373	925 / 0.511	19.94 / 0.785	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	2,220	30.2 / 1.189	2,520	34.7 / 1.366	2,870
	444	1,110 / 0.511	21.84 / 0.860	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	30.3 / 1.193	2,610	32.1 / 1.264	2,930	36.6 / 1.441	3,300
	535	1,332 / 0.511	23.90 / 0.941	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	33.2 / 1.307	3,130	35.0 / 1.378	3,480	39.5 / 1.555	3,870
	646	1,591 / 0.511	26.14 / 1.029	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	35.4 / 1.394	3,660	37.2 / 1.465	4,040	41.7 / 1.642	4,460
	777	1,924 / 0.511	28.75 / 1.132	2.03 / 0.080	2.03 / 0.080	2.79 / 0.110	37.6 / 1.480	4,340	39.4 / 1.551	4,730	45.4 / 1.787	5,340
	1,111	2,745 / 0.511	34.39 / 1.354	2.41 / 0.095	2.79 / 0.110	2.79 / 0.110	45.0 / 1.772	6,220	46.8 / 1.843	6,690	52.8 / 2.079	7,400

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

- 600V FS-SLSEL, FS-SLSELA, FS-SLSELB, FS-SLSELBS
- 600V FS-SPM, FS-SPMA, FS-SPMB, FS-SPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	6.7 / 0.264	70	8.5 / 0.335	150	11.2 / 0.441	210
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	7.2 / 0.283	90	9.0 / 0.354	170	11.7 / 0.461	240
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	7.8 / 0.307	120	9.6 / 0.378	200	12.3 / 0.484	270
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	9.3 / 0.366	170	11.1 / 0.437	280	14.3 / 0.563	370
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	9.8 / 0.386	200	11.6 / 0.457	310	14.8 / 0.583	410
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	230	12.1 / 0.476	350	15.3 / 0.602	450
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	270	12.8 / 0.504	390	16.0 / 0.630	500
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	320	13.4 / 0.528	450	16.6 / 0.654	560
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	12.3 / 0.484	380	14.1 / 0.555	520	17.3 / 0.681	630
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	460	14.9 / 0.587	600	18.1 / 0.713	720
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	1.52 / 0.060	1.52 / 0.060	15.4 / 0.606	600	17.2 / 0.677	770	20.4 / 0.803	910
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	720	18.2 / 0.717	890	22.5 / 0.886	1,100
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	860	19.3 / 0.760	1,050	23.6 / 0.929	1,270
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	1,050	20.7 / 0.815	1,250	25.0 / 0.984	1,480
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	1.52 / 0.060	2.03 / 0.080	20.3 / 0.799	1,270	22.1 / 0.870	1,490	26.4 / 1.039	1,740
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	1,560	24.9 / 0.980	1,810	29.2 / 1.150	2,080
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	24.5 / 0.965	1,820	26.3 / 1.035	2,080	30.6 / 1.205	2,370
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	2,080	27.6 / 1.087	2,360	31.9 / 1.256	2,660
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	2,340	28.8 / 1.134	2,630	33.1 / 1.303	2,940
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.03 / 0.080	2.03 / 0.080	29.2 / 1.150	2,850	31.0 / 1.220	3,160	35.3 / 1.390	3,490
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	32.0 / 1.260	3,420	33.8 / 1.331	3,760	38.1 / 1.500	4,120
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	4,170	36.4 / 1.433	4,540	40.7 / 1.602	4,930
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	2.03 / 0.080	2.79 / 0.110	38.5 / 1.516	5,410	40.3 / 1.587	5,820	46.1 / 1.815	6,410

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Two Core Power Cable
Flame Retardant Cable

Flexible rope stranding

- 600V DPN, DPNA, DPNB, DPNBS
- 600V DLSEL, DLSELA, DLSELB, DLSELBS
- 600V DPM, DPMA, DPMB, DPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	140	11.4 / 0.449	250	14.8 / 0.583	350
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.6 / 0.417	180	12.4 / 0.488	300	15.8 / 0.622	410
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.0 / 0.472	240	13.8 / 0.543	380	17.2 / 0.677	500
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	380	17.1 / 0.673	550	20.5 / 0.807	700
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	530	19.3 / 0.760	720	23.8 / 0.937	950
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	750	22.7 / 0.894	980	27.2 / 1.071	1,240
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	900	24.8 / 0.976	1,140	29.3 / 1.154	1,430
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	1,020	26.0 / 1.024	1,270	30.5 / 1.201	1,580
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.5 / 1.004	1,160	27.3 / 1.075	1,430	31.8 / 1.252	1,740
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,570	31.3 / 1.232	1,880	35.8 / 1.409	2,240
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,890	33.7 / 1.327	2,230	38.2 / 1.504	2,610
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.3 / 1.350	2,300	36.1 / 1.421	2,660	40.6 / 1.598	3,070
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	2,740	39.2 / 1.543	3,140	45.2 / 1.780	3,740
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	40.8 / 1.606	3,360	42.6 / 1.677	3,790	48.6 / 1.913	4,440
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	46.4 / 1.827	4,240	48.2 / 1.898	4,720	54.2 / 2.134	5,450

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

- 600V DPN, DPNA, DPNB, DPNBS
- 600V DLSEL, DLSELA, DLSELB, DLSELBS
- 600V DPM, DPMA, DPMB, DPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	140	11.5 / 0.453	250	14.9 / 0.587	350
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	180	12.5 / 0.492	300	15.9 / 0.626	410
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	240	13.7 / 0.539	370	17.1 / 0.673	490
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	400	17.5 / 0.689	570	20.7 / 0.815	720
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	16.6 / 0.654	460	18.4 / 0.724	640	22.7 / 0.894	850
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	540	19.4 / 0.764	730	23.7 / 0.933	950
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	640	20.6 / 0.811	840	24.9 / 0.980	1,070
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	750	21.8 / 0.858	960	26.1 / 1.028	1,210
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	960	24.4 / 0.961	1,200	28.7 / 1.130	1,470
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	1,140	26.0 / 1.024	1,400	30.3 / 1.193	1,680
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	1,440	29.4 / 1.157	1,730	33.7 / 1.327	2,050
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	29.6 / 1.165	1,720	31.4 / 1.236	2,030	35.7 / 1.406	2,370
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	2,070	33.7 / 1.327	2,400	38.0 / 1.496	2,770
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	2,510	36.4 / 1.433	2,870	40.7 / 1.602	3,260
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	37.5 / 1.476	3,040	39.3 / 1.547	3,440	45.1 / 1.776	4,010
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.03 / 0.080	2.79 / 0.110	40.9 / 1.610	3,600	42.7 / 1.681	4,030	48.5 / 1.909	4,660
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	45.2 / 1.780	4,370	47.0 / 1.850	4,850	52.8 / 2.079	5,530
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	47.8 / 1.882	4,990	49.6 / 1.953	5,500	55.4 / 2.181	6,220
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	50.2 / 1.976	5,600	52.0 / 2.047	6,130	57.8 / 2.276	6,880
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	54.5 / 2.146	6,790	56.3 / 2.217	7,360	62.1 / 2.445	8,170
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.79 / 0.110	2.79 / 0.110	60.1 / 2.366	8,190	61.9 / 2.437	8,820	67.7 / 2.665	9,710
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	2.79 / 0.110	3.56 / 0.140	65.4 / 2.575	9,970	67.2 / 2.646	10,650	74.5 / 2.933	11,880
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	74.7 / 2.941	3,170	76.5 / 3.012	13,950	83.8 / 3.299	15,340

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

- 600V FS-DPN, FS-DPNA, FS-DPNB, FS-DPNBS
- 600V FS-DLSEL, FS-DLSELA, FS-DLSELB, FS-DLSELBS
- 600V FS-DPM, FS-DPMA, FS-DPMB, FS-DPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	160	12.5 / 0.492	280	15.9 / 0.626	400
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	210	13.4 / 0.528	330	16.8 / 0.661	460
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	280	14.9 / 0.587	420	18.3 / 0.720	550
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	16.3 / 0.642	420	18.1 / 0.713	590	22.6 / 0.890	810
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	570	20.3 / 0.799	770	24.8 / 0.976	1,010
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	860	24.8 / 0.976	1,110	29.3 / 1.154	1,390
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	950	25.8 / 1.016	1,210	30.3 / 1.193	1,510
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	1,080	27.1 / 1.067	1,340	31.6 / 1.244	1,660
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	1,220	28.3 / 1.114	1,500	32.8 / 1.291	1,830
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	30.5 / 1.201	1,640	32.3 / 1.272	1,960	36.8 / 1.449	2,330
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	1,970	34.7 / 1.366	2,320	39.2 / 1.543	2,710
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	35.3 / 1.390	2,380	37.1 / 1.461	2,750	41.6 / 1.638	3,170
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	38.4 / 1.512	2,830	40.2 / 1.583	3,240	46.2 / 1.819	3,850
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	41.8 / 1.646	3,460	43.6 / 1.717	3,900	49.6 / 1.953	4,560
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	47.4 / 1.866	4,340	49.2 / 1.937	4,840	55.2 / 2.173	5,580

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

- 600V FS-DPN, FS-DPNA, FS-DPNB, FS-DPNBS
- 600V FS-DLSEL, FS-DLSELA, FS-DLSELB, FS-DLSELBS
- 600V FS-DPM, FS-DPMA, FS-DPMB, FS-DPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	170	12.8 / 0.504	290	16.2 / 0.638	410
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	210	13.7 / 0.539	340	17.1 / 0.673	460
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	270	15.0 / 0.591	420	18.4 / 0.724	550
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	440	18.7 / 0.736	630	23.0 / 0.906	840
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	17.8 / 0.701	510	19.6 / 0.772	700	23.9 / 0.941	920
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	590	20.6 / 0.811	790	24.9 / 0.980	1,020
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	690	22.0 / 0.866	910	26.3 / 1.035	1,160
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	880	24.4 / 0.961	1,120	28.7 / 1.130	1,390
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,020	25.8 / 1.016	1,280	30.1 / 1.185	1,570
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	1,220	27.8 / 1.094	1,500	32.1 / 1.264	1,800
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	29.0 / 1.142	1,520	30.8 / 1.213	1,830	35.1 / 1.382	2,160
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	31.1 / 1.224	1,810	32.9 / 1.295	2,140	37.2 / 1.465	2,490
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	2,160	35.2 / 1.386	2,520	39.5 / 1.555	2,900
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	36.0 / 1.417	2,610	37.8 / 1.488	2,990	42.1 / 1.657	3,390
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	38.9 / 1.531	3,150	40.7 / 1.602	3,560	46.5 / 1.831	4,160
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.03 / 0.080	2.79 / 0.110	42.4 / 1.669	3,720	44.2 / 1.740	4,170	50.0 / 1.969	4,820
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	46.6 / 1.835	4,500	48.4 / 1.906	4,990	54.2 / 2.134	5,700
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	49.2 / 1.937	5,130	51.0 / 2.008	5,650	56.8 / 2.236	6,390
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	51.6 / 2.031	5,740	53.4 / 2.102	6,290	59.2 / 2.331	7,060
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	56.0 / 2.205	6,960	57.8 / 2.276	7,540	63.6 / 2.504	8,380
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.79 / 0.110	2.79 / 0.110	61.5 / 2.421	8,360	63.3 / 2.492	9,010	69.1 / 2.720	9,920
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	2.79 / 0.110	3.56 / 0.140	66.9 / 2.634	10,170	68.7 / 2.705	10,870	76.0 / 2.992	12,120
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	76.2 / 3.000	13,400	78.0 / 3.071	14,190	85.3 / 3.358	15,600

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Three Core Power Cable
Flame Retardant Cable

Flexible rope stranding

- 600V TPN, TPNA, TPNB, TPNBS
- 600V TLSEL, TLSELA, TLSELB, TLSELBS,
- 600V TPM, TPMA, TPMB, TPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	170	12.0 / 0.472	280	15.4 / 0.606	390
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	220	13.0 / 0.512	340	16.4 / 0.646	460
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.8 / 0.504	300	14.6 / 0.575	440	18.0 / 0.709	570
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	16.2 / 0.638	470	18.0 / 0.709	640	22.5 / 0.886	860
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	670	20.4 / 0.803	870	24.9 / 0.980	1,110
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.3 / 0.917	1,000	25.1 / 0.988	1,250	29.6 / 1.165	1,540
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	1,120	26.2 / 1.031	1,380	30.7 / 1.209	1,680
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	1,280	27.6 / 1.087	1,550	32.1 / 1.264	1,870
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	27.1 / 1.067	1,460	28.9 / 1.138	1,750	33.4 / 1.315	2,080
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,990	33.2 / 1.307	2,320	37.7 / 1.484	2,700
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.0 / 1.339	2,420	35.8 / 1.409	2,780	40.3 / 1.587	3,190
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	36.6 / 1.441	2,970	38.4 / 1.512	3,350	44.4 / 1.748	3,940
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	39.9 / 1.571	3,550	41.7 / 1.642	3,970	47.7 / 1.878	4,600
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	45.1 / 1.776	4,530	46.9 / 1.846	5,000	52.9 / 2.083	5,710
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	49.5 / 1.949	5,470	51.3 / 2.020	5,990	57.3 / 2.256	6,760
	313	777 / 0.511	18.29 / 0.720	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	53.2 / 2.094	6,440	55.0 / 2.165	7,000	61.0 / 2.402	7,820
	373	925 / 0.511	19.94 / 0.785	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	56.9 / 2.240	7,510	58.7 / 2.311	8,110	64.7 / 2.547	8,990
	444	1,110 / 0.511	21.84 / 0.860	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	61.0 / 2.402	8,830	62.8 / 2.472	9,470	68.8 / 2.709	10,410
	535	1,332 / 0.511	23.90 / 0.941	2.03 / 0.080	2.79 / 0.110	3.56 / 0.140	67.1 / 2.642	10,630	68.9 / 2.713	11,330	76.4 / 3.008	12,620
	646	1,591 / 0.511	26.14 / 1.029	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	73.4 / 2.890	12,730	75.2 / 2.961	13,500	82.7 / 3.256	14,900
	777	1,924 / 0.511	28.75 / 1.132	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	78.1 / 3.075	15,010	79.9 / 3.146	15,820	87.4 / 3.441	17,310

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

- 600V TPN, TPNA, TPNB, TPNBS
- 600V TLSEL, TLSELA, TLSELB, TLSELBS,
- 600V TPM, TPMA, TPMB, TPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	170	12.1 / 0.476	290	15.5 / 0.610	400
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.3 / 0.445	220	13.1 / 0.516	350	16.5 / 0.650	470
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.6 / 0.496	300	14.4 / 0.567	440	17.8 / 0.701	570
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	16.6 / 0.654	500	18.4 / 0.724	680	22.7 / 0.894	890
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	590	19.4 / 0.764	780	23.7 / 0.933	1,000
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	690	20.5 / 0.807	890	24.8 / 0.976	1,120
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	820	21.8 / 0.858	1,040	26.1 / 1.028	1,280
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	1,040	24.2 / 0.953	1,280	28.5 / 1.122	1,540
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,240	25.8 / 1.016	1,500	30.1 / 1.185	1,780
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.1 / 1.028	1,490	27.9 / 1.098	1,770	32.2 / 1.268	2,080
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	29.3 / 1.154	1,880	31.1 / 1.224	2,190	35.4 / 1.394	2,520
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	2,260	33.4 / 1.315	2,600	37.7 / 1.484	2,960
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	2,740	35.9 / 1.413	3,100	40.2 / 1.583	3,490
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	36.9 / 1.453	3,340	38.7 / 1.524	3,730	44.5 / 1.752	4,300
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	40.0 / 1.575	4,070	41.8 / 1.646	4,490	47.6 / 1.874	5,110
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	45.2 / 1.780	5,000	47.0 / 1.850	5,470	52.8 / 2.079	6,160
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	48.2 / 1.898	5,840	50.0 / 1.969	6,350	55.8 / 2.197	7,070
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	51.0 / 2.008	6,690	52.8 / 2.079	7,230	58.6 / 2.307	7,990
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	53.6 / 2.110	7,530	55.4 / 2.181	8,090	61.2 / 2.409	8,890
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	58.3 / 2.295	9,180	60.1 / 2.366	9,790	65.9 / 2.594	10,650
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.79 / 0.110	3.56 / 0.140	64.3 / 2.531	11,080	66.1 / 2.602	11,750	73.4 / 2.890	12,950
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	71.5 / 2.815	13,800	73.3 / 2.886	14,540	80.6 / 3.173	15,870
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	79.9 / 3.146	17,880	81.7 / 3.217	18,710	89.0 / 3.504	20,190

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-TPN, FS-TPNA, FS-TPNB, FS-TPNBS
· 600V FS-TLSEL, FS-TLSELA, FS-TLSELB, FS-TLSELBS
· 600V FS-TPM, FS-TPMA, FS-TPMB, FS-TPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.3 / 0.445	200	13.1 / 0.516	320	16.5 / 0.650	440
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.3 / 0.484	250	14.1 / 0.555	380	17.5 / 0.689	510
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	360	16.4 / 0.646	520	19.8 / 0.780	670
	8	37 / 0.5	11 3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	510	19.1 / 0.752	700	23.6 / 0.929	920
	6	61 / 0.5	11 4.45 / 0.175	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	19.7 / 0.776	720	21.5 / 0.846	930	26.0 / 1.024	1,180
	5	91 / 0.511	6.20 / 0.244	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.6 / 0.969	1,070	26.4 / 1.039	1,330	30.9 / 1.217	1,640
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	1,180	27.4 / 1.079	1,450	31.9 / 1.256	1,770
	3	125 / 0.511	7.32 / 0.288	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.9 / 1.059	1,340	28.7 / 1.130	1,630	33.2 / 1.307	1,960
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	28.2 / 1.110	1,530	30.0 / 1.181	1,830	34.5 / 1.358	2,180
	1 20	9 / 0.511	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	32.5 / 1.280	2,070	34.3 / 1.350	2,420	38.8 / 1.528	2,800
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	35.1 / 1.382	2,510	36.9 / 1.453	2,880	41.4 / 1.630	3,300
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	37.7 / 1.484	3,060	39.5 / 1.555	3,460	45.5 / 1.791	4,060
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	41.0 / 1.614	3,650	42.8 / 1.685	4,080	48.8 / 1.921	4,730
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	46.2 / 1.819	4,650	48.0 / 1.890	5,130	54.0 / 2.126	5,860
	262	646 / 0.511	16.61 / 0.654	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	50.7 / 1.996	5,610	52.5 / 2.067	6,150	58.5 / 2.303	6,930
	313	777 / 0.511	18.29 / 0.720	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	54.3 / 2.138	6,580	56.1 / 2.209	7,150	62.1 / 2.445	7,990
	373	925 / 0.511	19.94 / 0.785	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	58.0 / 2.283	7,660	59.8 / 2.354	8,270	65.8 / 2.591	9,160
	444	1110 / 0.511	21.84 / 0.860	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	62.1 / 2.445	8,990	63.9 / 2.516	9,640	71.4 / 2.811	10,850
	535	1332 / 0.511	23.90 / 0.941	2.03 / 0.080	2.79 / 0.110	3.56 / 0.140	68.2 / 2.685	10,810	70.0 / 2.756	11,520	77.5 / 3.051	12,830
	646	1591 / 0.511	26.14 / 1.029	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	74.5 / 2.933	12,920	76.3 / 3.004	13,700	83.8 / 3.299	15,120
	777	1924 / 0.511	28.75 / 1.132	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	79.2 / 3.118	15,210	81.0 / 3.189	16,040	88.5 / 3.484	17,540

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V FS-TPN, FS-TPNA, FS-TPNB, FS-TPNBS
· 600V FS-TLSEL, FS-TLSELA, FS-TLSELB, FS-TLSELBS
· 600V FS-TPM, FS-TPMA, FS-TPMB, FS-TPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	200	13.4 / 0.528	330	16.8 / 0.661	450
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.7 / 0.500	260	14.5 / 0.571	400	17.9 / 0.705	530
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	370	16.5 / 0.650	530	19.9 / 0.783	670
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	560	19.8 / 0.780	750	24.1 / 0.949	970
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	640	20.7 / 0.815	850	25.0 / 0.984	1,080
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	750	21.8 / 0.858	960	26.1 / 1.028	1,210
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	950	24.4 / 0.961	1,190	28.7 / 1.130	1,460
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,120	25.8 / 1.016	1,370	30.1 / 1.185	1,660
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	1,320	27.6 / 1.087	1,600	31.9 / 1.256	1,900
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	1,580	29.4 / 1.157	1,870	33.7 / 1.327	2,190
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	30.9 / 1.217	1,980	32.7 / 1.287	2,300	37.0 / 1.457	2,660
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	2,370	34.9 / 1.374	2,720	39.2 / 1.543	3,090
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	35.6 / 1.402	2,850	37.4 / 1.472	3,230	41.7 / 1.642	3,630
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	38.4 / 1.512	3,460	40.2 / 1.583	3,860	46.0 / 1.811	4,450
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	41.6 / 1.638	4,210	43.4 / 1.709	4,640	49.2 / 1.937	5,280
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	46.8 / 1.843	5,150	48.6 / 1.913	5,640	54.4 / 2.142	6,350
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	49.8 / 1.961	6,000	51.6 / 2.031	6,530	57.4 / 2.260	7,270
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	52.6 / 2.071	6,860	54.4 / 2.142	7,410	60.2 / 2.370	8,200
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	55.1 / 2.169	7,700	56.9 / 2.240	8,280	62.7 / 2.469	9,100
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	59.8 / 2.354	9,360	61.6 / 2.425	9,990	67.4 / 2.654	10,870
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	2.79 / 0.110	3.56 / 0.140	65.8 / 2.591	11,280	67.6 / 2.661	11,960	74.9 / 2.949	13,200
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	73.1 / 2.878	14,040	74.9 / 2.949	14,800	82.2 / 3.236	16,160
	1000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	81.5 / 3.209	18,140	83.3 / 3.280	18,990	90.6 / 3.567	20,490

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Four Core Power Cable
Flame Retardant Cable

Flexible rope stranding

· 600V FPN, FPNA, FPNB, FPNBS
· 600V FLSEL, FLSELA, FLSELB, FLSELBS
· 600V FPM, FPMA, FPMB, FPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	14	19 / 0.3734	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.1 / 0.437	200	12.9 / 0.508	330	16.3 / 0.642	440
	12	19 / 0.4699	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.2 / 0.480	270	14.0 / 0.551	400	17.4 / 0.685	530
	10	37 / 0.4242	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	400	16.5 / 0.650	560	19.9 / 0.783	710
	8	37 / 0.5105	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	17.8 / 0.701	580	19.6 / 0.772	770	24.1 / 0.949	1,010
	6	61 / 0.5105	4.45 / 0.175	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.4 / 0.803	840	22.2 / 0.874	1,060	26.7 / 1.051	1,320
	5	91 / 0.5105	6.20 / 0.244	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	1,250	27.5 / 1.083	1,530	32.0 / 1.260	1,840
	4	105 / 0.5105	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.9 / 1.059	1,400	28.7 / 1.130	1,690	33.2 / 1.307	2,020
	3	125 / 0.5105	7.32 / 0.288	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,610	30.2 / 1.189	1,910	34.7 / 1.366	2,250
	2	150 / 0.5105	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	29.8 / 1.173	1,850	31.6 / 1.244	2,160	36.1 / 1.421	2,520
	1	209 / 0.5105	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.7 / 1.366	2,520	36.5 / 1.437	2,890	41.0 / 1.614	3,300
	1/0	266 / 0.5105	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	37.5 / 1.476	3,070	39.3 / 1.547	3,470	45.3 / 1.783	4,070
	2/0	342 / 0.5105	11.71 / 0.461	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	40.4 / 1.591	3,780	42.2 / 1.661	4,200	48.2 / 1.898	4,840
	3/0	418 / 0.5105	12.95 / 0.510	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	45.7 / 1.799	4,690	47.5 / 1.870	5,170	53.5 / 2.106	5,890
	4/0	532 / 0.5105	14.61 / 0.575	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	49.8 / 1.961	5,770	51.6 / 2.031	6,300	57.6 / 2.268	7,070
	262	646 / 0.5105	16.61 / 0.654	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	54.8 / 2.157	7,000	56.6 / 2.228	7,570	62.6 / 2.465	8,420
	313	777 / 0.5105	18.29 / 0.720	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	58.9 / 2.319	8,240	60.7 / 2.390	8,860	66.7 / 2.626	9,760
	373	925 / 0.5105	19.94 / 0.785	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	63.0 / 2.480	9,620	64.8 / 2.551	10,280	72.3 / 2.846	11,500
	444	1110 / 0.5105	21.84 / 0.860	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	67.6 / 2.661	11,330	69.4 / 2.732	12,040	76.9 / 3.028	13,340
	535	1332 / 0.5105	23.90 / 0.941	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	76.0 / 2.992	13,930	77.8 / 3.063	14,720	85.3 / 3.358	16,170
	646	1591 / 0.5105	26.14 / 1.029	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	81.3 / 3.201	16,320	83.1 / 3.272	17,170	90.6 / 3.567	18,710

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V FPN, FPNA, FPNB, FPNBS
· 600V FLSEL, FLSELA, FLSELB, FLSELBS
· 600V FPM, FPMA, FPMB, FPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	210	13.0 / 0.512	340	16.4 / 0.646	460
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	280	14.2 / 0.559	420	17.6 / 0.693	550
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.5 / 0.571	410	16.3 / 0.642	570	19.7 / 0.776	710
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	650	20.0 / 0.787	840	24.3 / 0.957	1,070
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	19.3 / 0.760	760	21.1 / 0.831	960	25.4 / 1.000	1,200
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.6 / 0.811	900	22.4 / 0.882	1,120	26.7 / 1.051	1,370
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	1,130	24.9 / 0.980	1,380	29.2 / 1.150	1,650
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.9 / 0.980	1,350	26.7 / 1.051	1,610	31.0 / 1.220	1,900
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	1,610	28.4 / 1.118	1,890	32.7 / 1.287	2,200
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	28.6 / 1.126	1,940	30.4 / 1.197	2,240	34.7 / 1.366	2,570
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	32.3 / 1.272	2,450	34.1 / 1.343	2,790	38.4 / 1.512	3,160
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.8 / 1.370	2,960	36.6 / 1.441	3,330	40.9 / 1.610	3,720
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	37.6 / 1.480	3,600	39.4 / 1.551	3,990	45.2 / 1.780	4,570
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	40.7 / 1.602	4,380	42.5 / 1.673	4,810	48.3 / 1.902	5,440
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	45.8 / 1.803	5,540	47.6 / 1.874	6,020	53.4 / 2.102	6,720
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	49.9 / 1.965	6,560	51.7 / 2.035	7,080	57.5 / 2.264	7,830
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	53.3 / 2.098	7,690	55.1 / 2.169	8,250	60.9 / 2.398	9,040
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	56.4 / 2.220	8,820	58.2 / 2.291	9,410	64.0 / 2.520	10,240
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	59.3 / 2.335	9,930	61.1 / 2.406	10,550	66.9 / 2.634	11,430
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	64.5 / 2.539	12,110	66.3 / 2.610	12,790	73.6 / 2.898	14,000
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	72.7 / 2.862	14,910	74.5 / 2.933	15,670	81.8 / 3.220	17,020
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	79.2 / 3.118	18,220	81.0 / 3.189	19,050	88.3 / 3.476	20,510
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	88.6 / 3.488	23,660	90.4 / 3.559	24,580	97.7 / 3.846	26,200

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-FPN, FS-FPNA, FS-FPNB, FS-FPNBS
· 600V FS-FLSEL, FS-FLSELA, FS-FLSELB, FS- FLSELBS
· 600V FS-FPM, FS-FPMA, FS-FPMB, FS-FPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	14	19 / 0. 3734	1.88 / 0. 074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	240	14.2 / 0.559	380	17.6 / 0.693	500
	12	19 / 0. 4699	2.36 / 0. 093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	330	16.0 / 0.630	490	19.4 / 0.764	630
	10	37 / 0.4242	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	440	17.7 / 0.697	620	22.2 / 0.874	830
	8	37 / 0.5105	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	630	20.8 / 0.819	840	25.3 / 0.996	1080
	6	61 / 0.5105	4.45 / 0.175	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	960	24.6 / 0.969	1200	29.1 / 1.146	1490
	5	91 / 0.5105	6.20 / 0.244	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	1330	28.8 / 1.134	1620	33.3 / 1.311	1950
	4	105 / 0.5105	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	28.2 / 1.110	1480	30.0 / 1.181	1780	34.5 / 1.358	2130
	3	125 / 0.5105	7.32 / 0.288	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	29.6 / 1.165	1690	31.4 / 1.236	2000	35.9 / 1.413	2360
	2	150 / 0.5105	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	31.1 / 1.224	1940	32.9 / 1.295	2270	37.4 / 1.472	2640
	1	209 / 0.5105	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	35.9 / 1.413	2620	37.7 / 1.484	3000	42.2 / 1.661	3430
	1/ 0	266 / 0.5105	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	38.8 / 1.528	3190	40.6 / 1.598	3600	46.6 / 1.835	4220
	2/ 0	342 / 0.5105	11.71 / 0.461	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	41.7 / 1.642	3900	43.5 / 1.713	4340	49.5 / 1.949	5000
	3/ 0	418 / 0.5105	12.95 / 0.510	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	46.9 / 1.846	4830	48.7 / 1.917	5320	54.7 / 2.154	6050
	4/ 0	532 / 0.5105	14.61 / 0.575	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	51.1 / 2.012	5930	52.9 / 2.083	6470	58.9 / 2.319	7260
	262	646 / 0.5105	16.61 / 0.654	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	56.0 / 2.205	7150	57.8 / 2.276	7740	63.8 / 2.512	8600
	313	777 / 0.5105	18.29 / 0.720	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	60.1 / 2.366	8410	61.9 / 2.437	9040	67.9 / 2.673	9960
	373	925 / 0.5105	19.94 / 0.785	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	64.2 / 2.528	9800	66.0 / 2.598	10480	73.5 / 2.894	11710
	444	1110 / 0.5105	21.84 / 0.860	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	68.8 / 2.709	11530	70.6 / 2.780	12250	78.1 / 3.075	13570
	535	1332 / 0.5105	23.90 / 0.941	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	77.2 / 3.039	14150	79.0 / 3.110	14950	86.5 / 3.406	16420
	646	1591 / 0.5105	2 .1 4 / 1.029	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	82.5 / 3.248	16550	84.3 / 3.319	17410	91.8 / 3.614	18980

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V FS-FPN, FS-FPNA, FS-FPNB, FS-FPNBS
· 600V FS-FLSEL, FS-FLSELA, FS-FLSELB, FS- FLSELBS
· 600V FS-FPM, FS-FPMA, FS-FPMB, FS-FPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.7 / 0.500	260	14.5 / 0.571	400	17.9 / 0.705	530
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	360	16.4 / 0.646	520	19.8 / 0.780	660
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	470	17.8 / 0.701	640	22.3 / 0.878	850
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	19.7 / 0.776	710	21.5 / 0.846	930	25.8 / 1.016	1,170
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.8 / 0.819	830	22.6 / 0.890	1,050	26.9 / 1.059	1,300
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	1,040	25.0 / 0.984	1,290	29.3 / 1.154	1,560
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.1 / 0.988	1,230	26.9 / 1.059	1,500	31.2 / 1.228	1,790
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	1,440	28.4 / 1.118	1,730	32.7 / 1.287	2,040
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,720	30.2 / 1.189	2,020	34.5 / 1.358	2,350
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	30.4 / 1.197	2,060	32.2 / 1.268	2,380	36.5 / 1.437	2,730
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	34.0 / 1.339	2,580	35.8 / 1.409	2,940	40.1 / 1.579	3,320
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	36.5 / 1.437	3,100	38.3 / 1.508	3,480	44.1 / 1.736	4,050
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	39.3 / 1.547	3,740	41.1 / 1.618	4,160	46.9 / 1.846	4,760
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	44.0 / 1.732	4,710	45.8 / 1.803	5,180	51.6 / 2.031	5,840
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	47.5 / 1.870	5,720	49.3 / 1.941	6,220	55.1 / 2.169	6,930
	250	37 / 2.088	14.62 / 0.575	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	51.7 / 2.035	6,760	53.5 / 2.106	7,310	59.3 / 2.335	8,080
	300	37 / 2.286	16.00 / 0.630	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	55.0 / 2.165	7,890	56.8 / 2.236	8,470	62.6 / 2.465	9,290
	350	37 / 2.471	17.30 / 0.681	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	58.1 / 2.287	9,030	59.9 / 2.358	9,640	65.7 / 2.587	10,500
	400	37 / 2.642	18.49 / 0.728	1.65 / 0.065	2.79 / 0.110	2.79 / 0.110	61.0 / 2.402	10,150	62.8 / 2.472	10,790	68.6 / 2.701	11,690
	500	37 / 2.951	20.66 / 0.813	1.65 / 0.065	2.79 / 0.110	3.56 / 0.140	66.3 / 2.610	12,370	68.1 / 2.681	13,070	75.4 / 2.969	14,310
	600	61 / 2.520	22.68 / 0.893	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	74.5 / 2.933	15,200	76.3 / 3.004	15,980	83.6 / 3.291	17,360
	750	61 / 2.817	25.35 / 0.998	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	80.9 / 3.185	18,520	82.7 / 3.256	19,370	90.0 / 3.543	20,860
	1,000	61 / 3.251	29.26 / 1.152	2.03 / 0.080	3.56 / 0.140	3.56 / 0.140	90.4 / 3.559	24,010	92.2 / 3.630	24,950	99.5 / 3.917	26,610

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Five Core Power Cable
Flame Retardant Cable

Flexible rope stranding

· 600V QPN, QPNA, QPNB, QPNBS
· 600V QLSEL, QLSELA, QLSELB, QLSELBS
· 600V QPM, QPMA, QPMB, QPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	250	13.9 / 0.547	380	17.3 / 0.681	500
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.1 / 0.555	350	15.9 / 0.626	510	19.3 / 0.760	650
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	480	17.8 / 0.701	660	22.1 / 0.870	,860
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	19.5 / 0.768	710	21.3 / 0.839	920	25.8 / 1.016	1,170
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.5 / 0.925	1,080	25.3 / 0.996	1,330	29.8 / 1.173	1,630
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	30.3 / 1.193	1,740	32.1 / 1.264	2,060	36.6 / 1.441	2,420
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	33.6 / 1.323	2,290	35.4 / 1.394	2,650	39.7 / 1.563	3,030
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	3,130	40.8 / 1.606	3,540	46.6 / 1.835	4,140
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	42.2 / 1.661	3,820	44.0 / 1.732	4,260	49.8 / 1.961	4,910
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	46.9 / 1.846	4,860	48.7 / 1.917	5,350	54.5 / 2.146	6,060
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	51.1 / 2.012	5,810	52.9 / 2.083	6,350	58.7 / 2.311	7,110
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	55.7 / 2.193	7,160	57.5 / 2.264	7,740	63.3 / 2.492	8,570

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V QPN, QPNA, QPNB, QPNBS
· 600V QLSEL, QLSELA, QLSELB, QLSELBS
· 600V QPM, QPMA, QPMB, QPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
5	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.2 / 0.480	250	14.0 / 0.551	390	17.4 / 0.685	510
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	360	16.0 / 0.630	510	19.4 / 0.764	660
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	490	17.7 / 0.697	660	22.2 / 0.874	870
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	770	21.8 / 0.858	980	26.1 / 1.028	1,230
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.3 / 0.878	960	24.1 / 0.949	1,200	28.4 / 1.118	1,470
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	1,130	25.5 / 1.004	1,390	29.8 / 1.173	1,670
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	1,350	27.4 / 1.079	1,620	31.7 / 1.248	1,920
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	1,610	29.1 / 1.146	1,900	33.4 / 1.315	2,220
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	29.2 / 1.150	1,930	31.0 / 1.220	2,240	35.3 / 1.390	2,570
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	31.5 / 1.240	2,330	33.3 / 1.311	2,660	37.6 / 1.480	3,020
	1	19 / 1.68	7 8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.03 / 0.080	35.6 / 1.402	2,950	37.4 / 1.472	3,320	41.7 / 1.642	3,730
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	38.3 / 1.508	3,560	40.1 / 1.579	3,970	45.9 / 1.807	4,560
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	41.5 / 1.634	4,340	43.3 / 1.705	4,780	49.1 / 1.933	5,410
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	46.5 / 1.831	5,480	48.3 / 1.902	5,970	54.1 / 2.130	6,670
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	50.5 / 1.988	6,690	52.3 / 2.059	7,220	58.1 / 2.287	7,980

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

- 600V FS-QPN, FS-QPNA, FS-QPNB, FS-QPNBS
- 600V FS-QLSEL, FS-QLSELA, FS-QLSELB, FS-QLSELBS
- 600V FS-QPM, FS-QPMA, FS-QPMB, FS-QPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	310	16.0 / 0.630	470	19.4 / 0.764	610
	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	400	17.3 / 0.681	570	20.7 / 0.815	720
	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	540	19.2 / 0.756	730	23.5 / 0.925	940
	8	37 / 0.511	3.45 / 0.136	1.14 / 0.045	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	770	22.7 / 0.894	1,000	27.2 / 1.071	1,260
	6	61 / 0.511	4.45 / 0.175	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	1,170	27.0 / 1.063	1,440	31.5 / 1.240	1,750
	4	105 / 0.511	6.55 / 0.258	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	31.2 / 1.228	1,820	33.0 / 1.299	2,150	37.5 / 1.476	2,520
	2	150 / 0.511	8.23 / 0.324	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	34.4 / 1.354	2,380	36.2 / 1.425	2,740	40.5 / 1.594	3,130
	1	209 / 0.511	9.17 / 0.361	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	39.8 / 1.567	3,230	41.6 / 1.638	3,650	47.4 / 1.866	4,260
	1/0	266 / 0.511	10.34 / 0.407	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	44.6 / 1.756	4,090	46.4 / 1.827	4,560	52.2 / 2.055	5,240
	2/0	342 / 0.511	11.71 / 0.461	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	47.8 / 1.882	4,990	49.6 / 1.953	5,490	55.4 / 2.181	6,210
	3/0	418 / 0.511	12.95 / 0.510	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	52.0 / 2.047	5,960	53.8 / 2.118	6,500	59.6 / 2.346	7,280
	4/0	532 / 0.511	14.61 / 0.575	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	56.6 / 2.228	7,320	58.4 / 2.299	7,910	64.2 / 2.528	8,750

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

- 600V FS-QPN, FS-QPNA, FS-QPNB, FS-QPNBS
- 600V FS-QLSEL, FS-QLSELA, FS-QLSELB, FS-QLSELBS
- 600V FS-QPM, FS-QPMA, FS-QPMB, FS-QPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
5	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	330	16.4 / 0.646	490	19.8 / 0.780	630
	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	420	17.7 / 0.697	590	22.2 / 0.874	800
	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	550	19.4 / 0.764	740	23.9 / 0.941	970
	8	7 / 1.234	3.70 / 0.146	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	910	24.6 / 0.969	1,150	28.9 / 1.138	1,430
	7	7 / 1.384	4.15 / 0.164	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,050	25.8 / 1.016	1,310	30.1 / 1.185	1,590
	6	7 / 1.554	4.66 / 0.184	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	1,230	27.5 / 1.083	1,510	31.8 / 1.252	1,810
	5	7 / 1.748	5.24 / 0.206	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	27.5 / 1.083	1,460	29.3 / 1.154	1,750	33.6 / 1.323	2,070
	4	7 / 1.961	5.88 / 0.232	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	29.2 / 1.150	1,720	31.0 / 1.220	2,030	35.3 / 1.390	2,370
	3	7 / 2.202	6.61 / 0.260	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	31.2 / 1.228	2,050	33.0 / 1.299	2,380	37.3 / 1.469	2,740
	2	7 / 2.474	7.42 / 0.292	1.14 / 0.045	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	2,460	35.2 / 1.386	2,810	39.5 / 1.555	3,190
	1	19 / 1.687	8.43 / 0.332	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	37.5 / 1.476	3,090	39.3 / 1.547	3,490	45.1 / 1.776	4,070
	1/0	19 / 1.892	9.46 / 0.373	1.40 / 0.055	2.03 / 0.080	2.79 / 0.110	40.3 / 1.587	3,730	42.1 / 1.657	4,150	47.9 / 1.886	4,770
	2/0	19 / 2.126	10.63 / 0.419	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	44.9 / 1.768	4,680	46.7 / 1.839	5,150	52.5 / 2.067	5,830
	3/0	19 / 2.388	11.94 / 0.470	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	48.5 / 1.909	5,680	50.3 / 1.980	6,190	56.1 / 2.209	6,920
	4/0	19 / 2.680	13.40 / 0.528	1.40 / 0.055	2.79 / 0.110	2.79 / 0.110	52.4 / 2.063	6,900	54.2 / 2.134	7,450	60.0 / 2.362	8,230

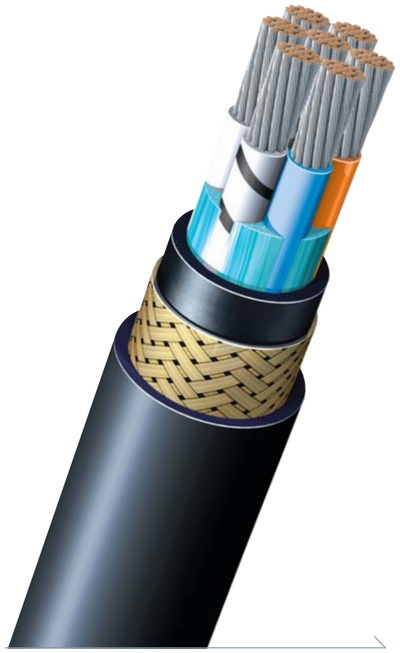
* lbs/1,000ft(approx.)=kg/km × 0.67

ENERFLEX®

600V Control Cable

- Non-shield
- Overall Shield
- Overall Braid Shield

JS Cable



600V Control Cable (Non- shield)

Cable Designation / 600V

- CPN, CPNA, CPNB, CPNBS
- CLSEL, CLSELA, CLSELB, CLSELBS
- CPM, CPMA, CPMB, CPMBS

* Prefix “FS-” in case of Fire resistant cable.

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)
- NEK 606

Application

- This cable is designed for control circuits up to 600V.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardan
  - Fire resistant properties (FS Type Cable Only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable Only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation :
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type E)
- Jacket
  - Flame retardant thermosetting neoprene (Type N) according tolEEE1580-2001, IEEE45-1998 & UL1309
  - Flame retardant low smoke XLPO(TypeL) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC 60092-359 & NEK 606.
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Control Cable (Non-shield)

Flame Retardant Cable

Flexible rope stranding

- 600V CPN, CPNA, CPNB, CPNBS
- 600V CLSEL,CLSELA, CLSELB, CLSELBS
- 600V CPM, CPMA, CPMB, CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	8.6 / 0.339	100	10.4 / 0.409	200	13.1 / 0.516	270
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.0 / 0.354	120	10.8 / 0.425	220	14.2 / 0.559	320
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.8 / 0.386	140	11.6 / 0.457	250	15.0 / 0.591	360
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	170	12.5 / 0.492	290	15.9 / 0.626	400
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	200	13.4 / 0.528	330	16.8 / 0.661	450
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	200	13.4 / 0.528	330	16.8 / 0.661	450
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	240	14.3 / 0.563	370	17.7 / 0.697	500
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	340	17.1 / 0.673	510	20.5 / 0.807	660
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	370	17.5 / 0.689	540	20.9 / 0.823	690
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	410	18.3 / 0.720	590	22.8 / 0.898	810
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	460	19.2 / 0.756	650	23.7 / 0.933	870
19	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.3 / 0.720	510	20.1 / 0.791	710	24.6 / 0.969	950
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	540	20.6 / 0.811	740	25.1 / 0.988	990
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.3 / 0.878	730	24.1 / 0.949	970	28.6 / 1.126	1,250
30	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	840	25.4 / 1.000	1,090	29.9 / 1.177	1,390
37	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.4 / 1.000	990	27.2 / 1.071	1,260	31.7 / 1.248	1,570
44	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,210	30.2 / 1.189	1,520	34.7 / 1.366	1,860
60	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,520	33.2 / 1.307	1,860	37.7 / 1.484	2,230
91	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	2,200	39.2 / 1.543	2,590	45.2 / 1.780	3,190
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	8.9 / 0.350	110	10.7 / 0.421	210	14.1 / 0.555	310
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.4 / 0.370	130	11.2 / 0.441	240	14.6 / 0.575	340
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	160	12.0 / 0.472	270	15.4 / 0.606	380
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.1 / 0.437	190	12.9 / 0.508	310	16.3 / 0.642	430
6	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	230	13.9 / 0.547	360	17.3 / 0.681	490
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	240	13.9 / 0.547	370	17.3 / 0.681	500
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.0 / 0.512	270	14.8 / 0.583	410	18.2 / 0.717	550
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	390	17.7 / 0.697	560	22.2 / 0.874	770
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	430	18.2 / 0.717	600	22.7 / 0.894	820
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.2 / 0.677	470	19.0 / 0.748	660	23.5 / 0.925	890
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	530	20.0 / 0.787	730	24.5 / 0.965	970
19	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	600	20.9 / 0.823	810	25.4 / 1.000	1,050
20	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.7 / 0.776	640	21.5 / 0.846	850	26.0 / 1.024	1,100
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	860	25.2 / 0.992	1,110	29.7 / 1.169	1,400
30	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.8 / 0.976	990	26.6 / 1.047	1,250	31.1 / 1.224	1,560
37	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	1,160	28.4 / 1.118	1,440	32.9 / 1.295	1,770
44	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.8 / 1.173	1,430	31.6 / 1.244	1,740	36.1 / 1.421	2,100
60	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	1,800	34.7 / 1.366	2,140	39.2 / 1.543	2,540
91	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.3 / 1.547	2,610	41.1 / 1.618	3,020	47.1 / 1.854	3,650
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	140	11.4 / 0.449	250	14.8 / 0.583	350
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	170	12.0 / 0.472	280	15.4 / 0.606	390
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.1 / 0.437	200	12.9 / 0.508	330	16.3 / 0.642	440
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	250	13.9 / 0.547	380	17.3 / 0.681	500
6	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	290	15.0 / 0.591	440	18.4 / 0.724	570
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	310	15.0 / 0.591	450	18.4 / 0.724	590
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	380	16.7 / 0.657	540	20.1 / 0.791	690
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	500	19.2 / 0.756	690	23.7 / 0.933	920
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	550	19.7 / 0.776	740	24.2 / 0.953	980
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	620	20.6 / 0.811	820	25.1 / 0.988	1,060
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	690	21.6 / 0.850	910	26.1 / 1.028	1,160
19	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	790	22.7 / 0.894	1,010	27.2 / 1.071	1,280
20	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	890	24.4 / 0.961	1,130	28.9 / 1.138	1,420
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	1,110	27.4 / 1.079	1,380	31.9 / 1.256	1,700
30	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.1 / 1.067	1,290	28.9 / 1.138	1,580	33.4 / 1.315	1,910
37	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,520	30.9 / 1.217	1,830	35.4 / 1.394	2,180
44	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.7 / 1.287	1,880	34.5 / 1.358	2,220	39.0 / 1.535	2,610
60	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.2 / 1.425	2,390	38.0 / 1.496	2,770	44.0 / 1.732	3,350
91	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	44.7 / 1.760	3,640	46.5 / 1.831	4,110	52.5 / 2.067	4,810

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Flexible rope stranding

· 600V CPN, CPNA, CPNB, CPNBS
· 600V CLSEL, CLSELA, CLSELB, CLSELBS
· 600V CPM, CPMA, CPMB, CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.6 / 0.417	180	12.4 / 0.488	300	15.8 / 0.622	410
3	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	220	13.0 / 0.512	340	16.4 / 0.646	460
4	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.2 / 0.480	270	14.0 / 0.551	400	17.4 / 0.685	530
5	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.1 / 0.555	350	15.9 / 0.626	510	19.3 / 0.760	650
6	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	420	17.1 / 0.673	580	20.5 / 0.807	730
7	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	440	17.1 / 0.673	610	20.5 / 0.807	760
8	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	510	18.3 / 0.720	690	22.8 / 0.898	900
10	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.3 / 0.760	670	21.1 / 0.831	880	25.6 / 1.008	1,130
12	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.9 / 0.783	740	21.7 / 0.854	960	26.2 / 1.031	1,210
14	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	840	22.7 / 0.894	1,060	27.2 / 1.071	1,330
16	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	1,000	25.0 / 0.984	1,250	29.5 / 1.161	1,540
19	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	1,140	26.2 / 1.031	1,400	30.7 / 1.209	1,700
20	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	1,200	27.0 / 1.063	1,470	31.5 / 1.240	1,780
24	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,490	30.2 / 1.189	1,800	34.7 / 1.366	2,140
30	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.1 / 1.185	1,750	31.9 / 1.256	2,070	36.4 / 1.433	2,430
37	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.4 / 1.276	2,080	34.2 / 1.346	2,420	38.7 / 1.524	2,810
44	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.4 / 1.433	2,560	38.2 / 1.504	2,940	44.2 / 1.740	3,530
60	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.4 / 1.591	3,290	42.2 / 1.661	3,710	48.2 / 1.898	4,350
91	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	49.9 / 1.965	5,000	51.7 / 2.035	5,520	57.7 / 2.272	6,300
2	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.0 / 0.472	240	13.8 / 0.543	380	17.2 / 0.677	500
3	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.8 / 0.504	300	14.6 / 0.575	440	18.0 / 0.709	570
4	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	400	16.5 / 0.650	560	19.9 / 0.783	710
5	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	480	17.8 / 0.701	660	22.3 / 0.878	870
6	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	580	19.3 / 0.760	770	23.8 / 0.937	1,000
7	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	620	19.3 / 0.760	810	23.8 / 0.937	1,040
8	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	710	20.7 / 0.815	920	25.2 / 0.992	1,160
10	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.3 / 0.917	1,000	25.1 / 0.988	1,250	29.6 / 1.165	1,540
12	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,110	25.8 / 1.016	1,370	30.3 / 1.193	1,670
14	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	1,260	27.1 / 1.067	1,530	31.6 / 1.244	1,840
16	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.7 / 1.051	1,410	28.5 / 1.122	1,700	33.0 / 1.299	2,020
19	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,610	29.9 / 1.177	1,910	34.4 / 1.354	2,250
20	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.9 / 1.138	1,700	30.7 / 1.209	2,010	35.2 / 1.386	2,360
24	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	2,120	34.6 / 1.362	2,470	39.1 / 1.539	2,860
30	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.8 / 1.370	2,500	36.6 / 1.441	2,870	41.1 / 1.618	3,280
37	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.5 / 1.476	2,980	39.3 / 1.547	3,380	45.3 / 1.783	3,980
44	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.3 / 1.665	3,670	44.1 / 1.736	4,120	50.1 / 1.972	4,790
60	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	48.5 / 1.909	4,910	50.3 / 1.980	5,420	56.3 / 2.217	6,180
91	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	57.9 / 2.280	7,200	59.7 / 2.350	7,800	65.7 / 2.587	8,690

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Class B stranding

· 600V CPN, CPNA, CPNB, CPNBS
· 600V CLSEL, CLSELA, CLSELB, CLSELBS
· 600V CPM, CPMA, CPMB, CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	8.4 / 0.331	90	10.2 / 0.402	190	12.9 / 0.508	260
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	8.8 / 0.346	110	10.6 / 0.417	210	13.3 / 0.524	290
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	130	11.4 / 0.449	240	14.8 / 0.583	350
5	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.4 / 0.409	160	12.2 / 0.480	270	15.6 / 0.614	390
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	190	13.0 / 0.512	320	16.4 / 0.646	440
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.8 / 0.583	320	16.6 / 0.654	480	20.0 / 0.787	630
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	350	17.1 / 0.673	520	20.5 / 0.807	670
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	390	17.8 / 0.701	560	22.3 / 0.878	780
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	430	18.6 / 0.732	610	23.1 / 0.909	840
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.7 / 0.697	490	19.5 / 0.768	680	24.0 / 0.945	910
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.6 / 0.811	640	22.4 / 0.882	860	26.9 / 1.059	1,120
30	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.9 / 0.902	800	24.7 / 0.972	1,050	29.2 / 1.150	1,330
37	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.9 / 0.980	950	26.7 / 1.051	1,210	31.2 / 1.228	1,520
44	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.7 / 1.091	1,150	29.5 / 1.161	1,440	34.0 / 1.339	1,780
61	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,460	32.4 / 1.276	1,780	36.9 / 1.453	2,150
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.0 / 0.354	110	10.8 / 0.425	210	14.2 / 0.559	320
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.5 / 0.374	140	11.3 / 0.445	240	14.7 / 0.579	350
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	160	12.1 / 0.476	280	15.5 / 0.610	390
5	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	200	13.0 / 0.512	320	16.4 / 0.646	440
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.2 / 0.480	250	14.0 / 0.551	380	17.4 / 0.685	510
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.1 / 0.634	400	17.9 / 0.705	570	22.4 / 0.882	790
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.6 / 0.654	440	18.4 / 0.724	620	22.9 / 0.902	840
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	490	19.2 / 0.756	680	23.7 / 0.933	910
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.3 / 0.720	550	20.1 / 0.791	750	24.6 / 0.969	980
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.3 / 0.760	620	21.1 / 0.831	830	25.6 / 1.008	1,080
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.5 / 0.925	870	25.3 / 0.996	1,130	29.8 / 1.173	1,420
30	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	1,020	27.0 / 1.063	1,290	31.5 / 1.240	1,600
37	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	1,200	28.8 / 1.134	1,490	33.3 / 1.311	1,820
44	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.2 / 1.189	1,460	32.0 / 1.260	1,780	36.5 / 1.437	2,150
61	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	1,880	35.2 / 1.386	2,230	39.7 / 1.563	2,630
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	140	11.5 / 0.453	250	14.9 / 0.587	350
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	170	12.1 / 0.476	290	15.5 / 0.610	400
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	210	13.0 / 0.512	330	16.4 / 0.646	450
5	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.2 / 0.480	250	14.0 / 0.551	390	17.4 / 0.685	510
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.3 / 0.524	320	15.1 / 0.594	460	18.5 / 0.728	600
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	510	19.4 / 0.764	700	23.9 / 0.941	930
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.1 / 0.713	570	19.9 / 0.783	760	24.4 / 0.961	1,000
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	640	20.9 / 0.823	850	25.4 / 1.000	1,090
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	720	21.9 / 0.862	930	26.4 / 1.039	1,190
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.3 / 0.878	880	24.1 / 0.949	1,120	28.6 / 1.126	1,400
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.1 / 1.028	1,140	27.9 / 1.098	1,420	32.4 / 1.276	1,740
30	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	1,330	29.4 / 1.157	1,630	33.9 / 1.335	1,960
37	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,580	31.5 / 1.240	1,900	36.0 / 1.417	2,260
44	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.3 / 1.311	1,930	35.1 / 1.382	2,280	39.6 / 1.559	2,680
61	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.8 / 1.449	2,490	38.6 / 1.520	2,880	44.6 / 1.756	3,470

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Class B stranding

· 600V CPN, CPNA, CPNB, CPNBS
· 600V CLSEL, CLSELA, CLSELB, CLSELBS
· 600V CPM, CPMA, CPMB, CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	180	12.5 / 0.492	300	15.9 / 0.626	410
3	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.3 / 0.445	220	13.1 / 0.516	350	16.5 / 0.650	470
4	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	280	14.2 / 0.559	410	17.6 / 0.693	540
5	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	360	16.0 / 0.630	510	19.4 / 0.764	660
7	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610 4	60	17.3 / 0.681	620	20.7 / 0.815	780
10	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.5 / 0.768	680	21.3 / 0.839	890	25.8 / 1.016	1140
12	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	760	21.9 / 0.862	970	26.4 / 1.039	1230
14	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.3 / 0.878	920	24.1 / 0.949	1160	28.6 / 1.126	1440
16	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	1030	25.2 / 0.992	1280	29.7 / 1.169	1570
19	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.0 / 0.984	1180	26.8 / 1.055	1450	31.3 / 1.232	1760
24	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.0 / 1.142	1530	30.8 / 1.213	1840	35.3 / 1.390	2190
30	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1800	32.5 / 1.280	2130	37.0 / 1.457	2500
37	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	2150	34.9 / 1.374	2500	39.4 / 1.551	2900
44	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.1 / 1.461	2610	38.9 / 1.531	3010	44.9 / 1.768	3600
61	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	41.2 / 1.622	3410	43.0 / 1.693	3850	49.0 / 1.929	4500
2	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	240	13.7 / 0.539	370	17.1 / 0.673	490
3	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.6 / 0.496	300	14.4 / 0.567	440	17.8 / 0.701	570
4	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.5 / 0.571	400	16.3 / 0.642	560	19.7 / 0.776	700
5	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	490	17.7 / 0.697	660	22.2 / 0.874	870
7	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	620	19.1 / 0.752	810	23.6 / 0.929	1,040
10	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	990	24.8 / 0.976	1,240	29.3 / 1.154	1,520
12	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.8 / 0.937	1,120	25.6 / 1.008	1,370	30.1 / 1.185	1,670
14	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	1,270	27.1 / 1.067	1,540	31.6 / 1.244	1,850
16	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	1,420	28.4 / 1.118	1,700	32.9 / 1.295	2,030
19	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.0 / 1.102	1,630	29.8 / 1.173	1,930	34.3 / 1.350	2,270
24	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.7 / 1.287	2,120	34.5 / 1.358	2,470	39.0 / 1.535	2,860
30	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	2,510	36.4 / 1.433	2,880	40.9 / 1.610	3,290
37	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.3 / 1.469	3,010	39.1 / 1.539	3,400	45.1 / 1.776	4,000
44	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.0 / 1.654	3,670	43.8 / 1.724	4,110	49.8 / 1.961	4,770
61	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	48.1 / 1.894	4,990	49.9 / 1.965	5,500	55.9 / 2.201	6,250

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-CPN, FS-CPNA, FS-CPNB, FS-CPNBS
· 600V FS-CLSEL, FS-CLSELA, FS-CLSELB, FS-CLSELBS
· 600V FS-CPM, FS-CPMA, FS-CPMB, FS-CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	120	11.4 / 0.449	230	14.8 / 0.583	330
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	140	12.0 / 0.472	260	15.4 / 0.606	370
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.1 / 0.437	170	12.9 / 0.508	290	16.3 / 0.642	410
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	210	13.9 / 0.547	340	17.3 / 0.681	460
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	240	14.9 / 0.587	380	18.3 / 0.720	520
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	250	14.9 / 0.587	390	18.3 / 0.720	520
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	310	16.7 / 0.657	470	20.1 / 0.791	620
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	410	19.1 / 0.752	600	23.6 / 0.929	830
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	450	19.7 / 0.776	650	24.2 / 0.953	880
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	500	20.6 / 0.811	710	25.1 / 0.988	950
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	560	21.6 / 0.850	770	26.1 / 1.028	1,030
19	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	630	22.7 / 0.894	860	27.2 / 1.071	1,120
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	730	24.4 / 0.961	970	28.9 / 1.138	1,250
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	910	27.4 / 1.079	1,180	31.9 / 1.256	1,500
30	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	1,040	28.8 / 1.134	1,320	33.3 / 1.311	1,650
37	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,220	30.9 / 1.217	1,530	35.4 / 1.394	1,880
44	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.6 / 1.283	1,510	34.4 / 1.354	1,850	38.9 / 1.531	2,240
60	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	36.1 / 1.421	1,890	37.9 / 1.492	2,270	42.4 / 1.669	2,700
91	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	44.6 / 1.756	2,880	46.4 / 1.827	3,350	52.4 / 2.063	4,050
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.0 / 0.394	140	11.8 / 0.465	250	15.2 / 0.598	360
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.5 / 0.413	160	12.3 / 0.484	270	15.7 / 0.618	390
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.5 / 0.453	190	13.3 / 0.524	320	16.7 / 0.657	440
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	230	14.3 / 0.563	370	17.7 / 0.697	500
6	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.3 / 0.563	300	16.1 / 0.634	450	19.5 / 0.768	590
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.3 / 0.563	310	16.1 / 0.634	460	19.5 / 0.768	600
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	360	17.3 / 0.681	520	20.7 / 0.815	680
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	470	19.8 / 0.780	660	24.3 / 0.957	900
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	510	20.4 / 0.803	710	24.9 / 0.980	960
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.5 / 0.768	570	21.3 / 0.839	780	25.8 / 1.016	1,030
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.6 / 0.811	640	22.4 / 0.882	860	26.9 / 1.059	1,120
19	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	780	24.6 / 0.969	1,020	29.1 / 1.146	1,310
20	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.5 / 0.925	830	25.3 / 0.996	1,080	29.8 / 1.173	1,370
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	1,040	28.4 / 1.118	1,320	32.9 / 1.295	1,650
30	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,190	29.9 / 1.177	1,480	34.4 / 1.354	1,830
37	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.3 / 1.193	1,400	32.1 / 1.264	1,720	36.6 / 1.441	2,090
44	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.9 / 1.335	1,720	35.7 / 1.406	2,080	40.2 / 1.583	2,490
60	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.6 / 1.480	2,180	39.4 / 1.551	2,570	45.4 / 1.787	3,170
91	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	46.5 / 1.831	3,320	48.3 / 1.902	3,810	54.3 / 2.138	4,540
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	160	12.5 / 0.492	280	15.9 / 0.626	400
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.3 / 0.445	200	13.1 / 0.516	320	16.5 / 0.650	440
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	240	14.2 / 0.559	380	17.6 / 0.693	500
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	310	16.0 / 0.630	470	19.4 / 0.764	610
6	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.4 / 0.606	370	17.2 / 0.677	530	20.6 / 0.811	690
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.4 / 0.606	380	17.2 / 0.677	550	20.6 / 0.811	700
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	450	18.5 / 0.728	630	23.0 / 0.906	850
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.5 / 0.768	590	21.3 / 0.839	800	25.8 / 1.016	1,050
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	650	21.9 / 0.862	860	26.4 / 1.039	1,120
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.2 / 0.874	780	24.0 / 0.945	1,020	28.5 / 1.122	1,300
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	870	25.2 / 0.992	1,120	29.7 / 1.169	1,420
19	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.7 / 0.972	990	26.5 / 1.043	1,250	31.0 / 1.220	1,560
20	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.4 / 1.000	1,040	27.2 / 1.071	1,310	31.7 / 1.248	1,630
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.7 / 1.130	1,300	30.5 / 1.201	1,610	35.0 / 1.378	1,960
30	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.4 / 1.197	1,510	32.2 / 1.268	1,830	36.7 / 1.445	2,200
37	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	1,790	34.6 / 1.362	2,130	39.1 / 1.539	2,530
44	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.8 / 1.449	2,200	38.6 / 1.520	2,590	44.6 / 1.756	3,180
60	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.9 / 1.610	2,810	42.7 / 1.681	3,240	48.7 / 1.917	3,890
91	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	50.4 / 1.984	4,260	52.2 / 2.055	4,790	58.2 / 2.291	5,580

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-CPN, FS-CPNA, FS-CPNB, FS-CPNBS
· 600V FS-CLSEL, FS-CLSELA, FS-CLSELB, FS-CLSELBS
· 600V FS-CPM, FS-CPMA, FS-CPMB, FS-CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	210	13.4 / 0.528	330	16.8 / 0.661	460
3	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.3 / 0.484	250	14.1 / 0.555	380	17.5 / 0.689	510
4	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.2 / 0.559	330	16.0 / 0.630	490	19.4 / 0.764	630
5	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	400	17.3 / 0.681	570	20.7 / 0.815	720
6	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	470	18.6 / 0.732	650	23.1 / 0.909	880
7	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	500	18.6 / 0.732	680	23.1 / 0.909	900
8	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	580	20.0 / 0.787	770	24.5 / 0.965	1,010
10	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	820	24.2 / 0.953	1,060	28.7 / 1.130	1,340
12	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	910	24.9 / 0.980	1,150	29.4 / 1.157	1,440
14	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.3 / 0.957	1,020	26.1 / 1.028	1,280	30.6 / 1.205	1,580
16	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	1,140	27.5 / 1.083	1,420	32.0 / 1.260	1,730
19	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.1 / 1.067	1,300	28.9 / 1.138	1,590	33.4 / 1.315	1,920
20	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.9 / 1.098	1,370	29.7 / 1.169	1,670	34.2 / 1.346	2,010
24	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,720	33.4 / 1.315	2,050	37.9 / 1.492	2,430
30	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	1,990	35.2 / 1.386	2,350	39.7 / 1.563	2,740
37	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	36.1 / 1.421	2,370	37.9 / 1.492	2,750	42.4 / 1.669	3,180
44	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.6 / 1.598	2,930	42.4 / 1.669	3,360	48.4 / 1.906	4,000
60	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	46.6 / 1.835	3,910	48.4 / 1.906	4,400	54.4 / 2.142	5,130
91	12	19 / 0.470	2.36 / 0.093	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	55.6 / 2.189	5,700	57.4 / 2.260	6,280	63.4 / 2.496	7,140
2	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	280	14.9 / 0.587	420	18.3 / 0.720	550
3	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	360	16.4 / 0.646	520	19.8 / 0.780	670
4	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	440	17.7 / 0.697	620	22.2 / 0.874	830
5	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	540	19.2 / 0.756	730	23.7 / 0.933	960
6	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	640	20.8 / 0.819	850	25.3 / 0.996	1,090
7	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	680	20.8 / 0.819	890	25.3 / 0.996	1,130
8	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.6 / 0.811	790	22.4 / 0.882	1,010	26.9 / 1.059	1,270
10	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.5 / 1.004	1,120	27.3 / 1.075	1,390	31.8 / 1.252	1,710
12	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.3 / 1.035	1,240	28.1 / 1.106	1,520	32.6 / 1.283	1,850
14	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	1,400	29.4 / 1.157	1,690	33.9 / 1.335	2,030
16	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,570	30.9 / 1.217	1,880	35.4 / 1.394	2,230
19	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,790	32.5 / 1.280	2,120	37.0 / 1.457	2,490
20	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,890	33.4 / 1.315	2,230	37.9 / 1.492	2,610
24	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.9 / 1.413	2,370	37.7 / 1.484	2,750	42.2 / 1.661	3,170
30	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.1 / 1.500	2,780	39.9 / 1.571	3,180	45.9 / 1.807	3,790
37	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	41.2 / 1.622	3,320	43.0 / 1.693	3,750	49.0 / 1.929	4,410
44	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	47.9 / 1.886	4,260	49.7 / 1.957	4,760	55.7 / 2.193	5,510
60	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	53.2 / 2.094	5,470	55.0 / 2.165	6,030	61.0 / 2.402	6,850
91	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	2.79 / 0.110	3.56 / 0.140	63.6 / 2.504	8,010	65.4 / 2.575	8,670	72.9 / 2.870	9,900

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Class B stranding

· 600V FS-CPN, FS-CPNA, FS-CPNB, FS-CPNBS,
· 600V FS-CLSEL, FS-CLSELA, FS-CLSELB, FS-CLSELBS,
· 600V FS-CPM, FS-CPMA, FS-CPMB, FS-CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	120	11.4 / 0.449	230	14.8 / 0.583	330
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.1 / 0.398	140	11.9 / 0.469	250	15.3 / 0.602	360
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	170	12.8 / 0.504	290	16.2 / 0.638	410
5	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	200	13.9 / 0.547	340	17.3 / 0.681	460
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	250	14.9 / 0.587	390	18.3 / 0.720	530
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	410	19.1 / 0.752	600	23.6 / 0.929	820
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.8 / 0.701	450	19.6 / 0.772	640	24.1 / 0.949	870
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	500	20.5 / 0.807	700	25.0 / 0.984	940
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	560	21.6 / 0.850	770	26.1 / 1.028	1,030
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.8 / 0.819	630	22.6 / 0.890	850	27.1 / 1.067	1,120
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	900	27.5 / 1.083	1,170	32.0 / 1.260	1,490
30	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.1 / 1.067	1,030	28.9 / 1.138	1,320	33.4 / 1.315	1,650
37	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.2 / 1.150	1,220	31.0 / 1.220	1,530	35.5 / 1.398	1,880
44	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.7 / 1.287	1,490	34.5 / 1.358	1,830	39.0 / 1.535	2,230
61	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.2 / 1.425	1,890	38.0 / 1.496	2,270	44.0 / 1.732	2,850
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	140	12.0 / 0.472	250	15.4 / 0.606	360
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.8 / 0.425	170	12.6 / 0.496	290	16.0 / 0.630	400
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.8 / 0.465	200	13.6 / 0.535	330	17.0 / 0.669	460
5	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.9 / 0.508	240	14.7 / 0.579	390	18.1 / 0.713	520
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	330	16.5 / 0.650	490	19.9 / 0.783	630
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	490	20.3 / 0.799	690	24.8 / 0.976	930
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	540	20.9 / 0.823	750	25.4 / 1.000	1,000
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	610	21.9 / 0.862	830	26.4 / 1.039	1,080
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.3 / 0.878	740	24.1 / 0.949	980	28.6 / 1.126	1,260
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.5 / 0.925	840	25.3 / 0.996	1,090	29.8 / 1.173	1,380
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	1,100	29.4 / 1.157	1,390	33.9 / 1.335	1,730
30	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,270	30.9 / 1.217	1,580	35.4 / 1.394	1,930
37	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,500	33.2 / 1.307	1,830	37.7 / 1.484	2,210
44	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.2 / 1.386	1,830	37.0 / 1.457	2,210	41.5 / 1.634	2,620
61	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	2,340	40.8 / 1.606	2,760	46.8 / 1.843	3,380
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	170	12.8 / 0.504	290	16.2 / 0.638	410
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	200	13.4 / 0.528	330	16.8 / 0.661	450
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.7 / 0.500	250	14.5 / 0.571	390	17.9 / 0.705	520
5	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	330	16.4 / 0.646	490	19.8 / 0.780	630
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	410	17.7 / 0.697	580	22.2 / 0.874	790
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	620	21.9 / 0.862	830	26.4 / 1.039	1,090
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.7 / 0.815	680	22.5 / 0.886	900	27.0 / 1.063	1,170
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.9 / 0.902	830	24.7 / 0.972	1,080	29.2 / 1.150	1,360
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	930	25.9 / 1.020	1,180	30.4 / 1.197	1,480
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	1,060	27.5 / 1.083	1,330	32.0 / 1.260	1,650
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.8 / 1.173	1,370	31.6 / 1.244	1,690	36.1 / 1.421	2,050
30	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,600	33.4 / 1.315	1,940	37.9 / 1.492	2,320
37	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.0 / 1.339	1,900	35.8 / 1.409	2,260	40.3 / 1.587	2,660
44	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	38.2 / 1.504	2,330	40.0 / 1.575	2,730	46.0 / 1.811	3,340
61	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.4 / 1.669	3,000	44.2 / 1.740	3,450	50.2 / 1.976	4,120

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Class B stranding

· 600V FS-CPN, FS-CPNA, FS-CPNB, FS-CPNBS
· 600V FS-CLSEL, FS-CLSELA, FS-CLSELB, FS-CLSELBS
· 600V FS-CPM, FS-CPMA, FS-CPMB, FS-CPMBS

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	210	13.7 / 0.539	340	17.1 / 0.673	460
3	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.7 / 0.500	260	14.5 / 0.571	400	17.9 / 0.705	530
4	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	350	16.4 / 0.646	510	19.8 / 0.780	650
5	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	420	17.7 / 0.697	590	22.2 / 0.874	800
7	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	530	19.1 / 0.752	710	23.6 / 0.929	940
10	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	860	24.9 / 0.980	1,100	29.4 / 1.157	1,390
12	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.8 / 0.937	950	25.6 / 1.008	1,210	30.1 / 1.185	1,500
14	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	1,070	27.1 / 1.067	1,340	31.6 / 1.244	1,660
16	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.7 / 1.051	1,200	28.5 / 1.122	1,490	33.0 / 1.299	1,820
19	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,370	29.9 / 1.177	1,670	34.4 / 1.354	2,010
24	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.7 / 1.287	1,790	34.5 / 1.358	2,130	39.0 / 1.535	2,520
30	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.7 / 1.366	2,100	36.5 / 1.437	2,470	41.0 / 1.614	2,880
37	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	2,500	39.2 / 1.543	2,900	45.2 / 1.780	3,500
44	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.1 / 1.657	3,060	43.9 / 1.728	3,510	49.9 / 1.965	4,170
61	12	7 / 0.775	2.32 / 0.092	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	48.2 / 1.898	4,150	50.0 / 1.969	4,660	56.0 / 2.205	5,410
2	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	270	15.0 / 0.591	420	18.4 / 0.724	550
3	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	370	16.5 / 0.650	530	19.9 / 0.783	670
4	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	450	17.8 / 0.701	630	22.3 / 0.878	840
5	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	550	19.4 / 0.764	740	23.9 / 0.941	970
7	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	700	20.9 / 0.823	910	25.4 / 1.000	1,150
10	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	1,130	27.6 / 1.087	1,410	32.1 / 1.264	1,720
12	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	1,270	28.4 / 1.118	1,550	32.9 / 1.295	1,880
14	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.0 / 1.102	1,430	29.8 / 1.173	1,730	34.3 / 1.350	2,070
16	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,610	31.3 / 1.232	1,920	35.8 / 1.409	2,280
19	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.1 / 1.224	1,840	32.9 / 1.295	2,170	37.4 / 1.472	2,550
24	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.4 / 1.433	2,410	38.2 / 1.504	2,790	44.2 / 1.740	3,380
30	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.6 / 1.520	2,850	40.4 / 1.591	3,250	46.4 / 1.827	3,870
37	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	41.7 / 1.642	3,410	43.5 / 1.713	3,850	49.5 / 1.949	4,510
44	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	48.4 / 1.906	4,340	50.2 / 1.976	4,850	56.2 / 2.213	5,600
61	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	53.7 / 2.114	5,650	55.5 / 2.185	6,210	61.5 / 2.421	7,040

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Control Cable (with Overall Shield)

Cable Designation / 600V

- C(OS)PN, C(OS)PNA, C(OS)PNB, C(OS)PNBS
- C(OS)LSEL,C(OS)LSELA,C(OS)LSELB,C(OS)LSELBS
- C(OS)PM, C(OS)PMA, C(OS)PMB, C(OS)PMBS

* Prefix "FS-" in case of Fire resistant cable.

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)
- NEK 606

Application

- This cable is designed for control/signal circuits up to 600V.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties (FS Type Cable inly)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type E)
- Overall shield(OS) : AL/PS tape with tinned copper drain wire 100% coverage over the cabled core.
- Jacket
  - Flame retardant thermosetting neoprene(Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309
  - Flame retardant Low smoke XLPO(TypeL) according to IEEE45-1998. IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC 60092-359 & NEK 606
- Armor(Optional) : Bronze, Aluminum or Tinned copper.
- Sheath(Optional) : The same as Jacket

600V Control Cable (with Overall Shield)

Flame Retardant Cable

Flexible rope stranding

· 600V C(OS)PN, C(OS)PNA, C(OS)PNB, C(OS)PNBS
· 600V C(OS)LSEL, C(OS)LSELA, C(OS)LSELB, C(OS)LSELBS
· 600V C(OS)PM, C(OS)PMA, C(OS)PMB, C(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	8.6 / 0.339	110	10.4 / 0.409	200	13.1 / 0.516	280
4	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.3 / 0.366	120	11.1 / 0.437	230	14.5 / 0.571	330
5	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.0 / 0.394	140	11.8 / 0.465	260	15.2 / 0.598	360
6	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.9 / 0.429	170	12.7 / 0.500	290	15.9 / 0.626	400
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.1 / 0.358	120	10.9 / 0.429	230	14.1 / 0.555	320
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.9 / 0.390	150	11.7 / 0.461	260	14.9 / 0.587	360
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.7 / 0.461	210	13.5 / 0.531	340	16.7 / 0.657	450
25	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	760	24.2 / 0.953	1000	28.5 / 1.122	1,270
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.5 / 0.374	140	11.3 / 0.445	250	14.5 / 0.571	340
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	170	12.1 / 0.476	280	15.3 / 0.602	390
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	440	18.3 / 0.720	620	22.6 / 0.890	830
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	180	12.1 / 0.476	290	15.3 / 0.602	390
3	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.9 / 0.508	320	14.7 / 0.579	460	17.9 / 0.705	580

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V C(OS)PN, C(OS)PNA, C(OS)PNB, C(OS)PNBS
· 600V C(OS)LSEL, C(OS)LSELA, C(OS)LSELB, C(OS)LSELBS
· 600V C(OS)PM, C(OS)PMA, C(OS)PMB, C(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	8.4 / 0.331	100	10.2 / 0.402	190	12.9 / 0.508	270
4	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.1 / 0.358	120	10.9 / 0.429	220	14.3 / 0.563	320
5	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.9 / 0.390	140	11.7 / 0.461	250	15.1 / 0.594	360
6	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	160	12.5 / 0.492	280	15.7 / 0.618	390
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	8.9 / 0.350	110	10.7 / 0.421	210	13.9 / 0.547	310
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	140	11.5 / 0.453	250	14.7 / 0.579	350
6	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.3 / 0.445	190	13.1 / 0.516	310	16.3 / 0.642	420
25	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.7 / 0.815	650	22.5 / 0.886	880	26.8 / 1.055	1,130
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	140	11.4 / 0.449	250	14.6 / 0.575	340
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.4 / 0.409	170	12.2 / 0.480	280	15.4 / 0.606	390
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	440	18.5 / 0.728	630	22.8 / 0.898	840
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.4 / 0.409	170	12.2 / 0.480	290	15.4 / 0.606	390
3	14	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.7 / 0.500	300	14.5 / 0.571	440	17.7 / 0.697	560

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-C(OS)PN, FS-C(OS)PNA, FS-C(OS)PNB, FS-C(OS)PNBS
· 600V FS-C(OS)LSEL, FS-C(OS)LSELA, FS-C(OS)LSELB, FS-C(OS)LSELBS
· 600V FS-C(OS)PM, FS-C(OS)PMA, FS-C(OS)PMB, FS-C(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	130	11.5 / 0.453	240	14.9 / 0.587	340
4	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.5 / 0.413	150	12.3 / 0.484	270	15.7 / 0.618	380
5	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.4 / 0.449	180	13.2 / 0.520	310	16.6 / 0.654	430
6	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	210	14.2 / 0.559	350	17.4 / 0.685	470
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	150	12.1 / 0.476	270	15.3 / 0.602	370
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	180	13.0 / 0.512	310	16.2 / 0.638	420
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	250	15.0 / 0.591	400	18.2 / 0.717	520
25	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	940	27.6 / 1.087	1,220	31.9 / 1.256	1,520
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.6 / 0.417	170	12.4 / 0.488	290	15.6 / 0.614	390
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	200	13.4 / 0.528	330	16.6 / 0.654	440
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	530	20.5 / 0.807	730	24.8 / 0.976	960
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.4 / 0.449	210	13.2 / 0.520	330	16.4 / 0.646	440
3	10	37 / 0.424	2.87 / 0.113	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	370	16.5 / 0.650	530	19.7 / 0.776	670

* lbs/1,000ft(approx.)=kg/km × 0.67

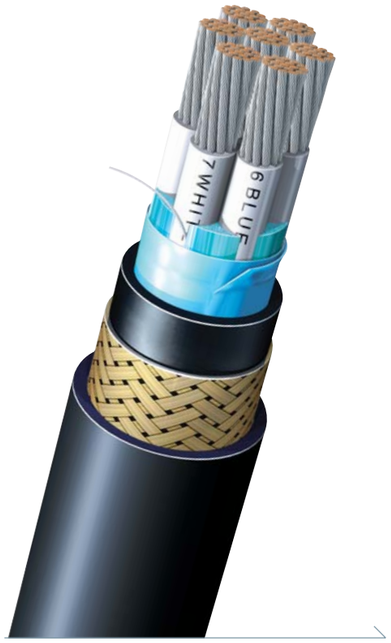
Class B stranding

· 600V FS-C(OS)PN, FS-C(OS)PNA, FS-C(OS)PNB, FS-C(OS)PNBS
· 600V FS-C(OS)LSEL, FS-C(OS)LSELA, FS-C(OS)LSELB, FS-C(OS)LSELBS
· 600V FS-C(OS)PM, FS-C(OS)PMA, FS-C(OS)PMB, FS-C(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
3	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	120	11.5 / 0.453	230	14.9 / 0.587	340
4	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.6 / 0.417	150	12.4 / 0.488	270	15.8 / 0.622	380
5	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.5 / 0.453	180	13.3 / 0.524	300	16.7 / 0.657	430
6	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	210	14.3 / 0.563	350	17.5 / 0.689	470
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	140	12.0 / 0.472	260	15.2 / 0.598	360
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.1 / 0.437	170	12.9 / 0.508	290	16.1 / 0.634	400
6	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	240	15.0 / 0.591	390	18.2 / 0.717	510
25	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	920	27.5 / 1.083	1,190	31.8 / 1.252	1,490
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.9 / 0.429	170	12.7 / 0.500	290	15.9 / 0.626	400
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	210	13.7 / 0.539	340	16.9 / 0.665	450
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.2 / 0.756	550	21.0 / 0.827	760	25.3 / 0.996	990
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.7 / 0.461	210	13.5 / 0.531	340	16.7 / 0.657	450
3	10	7 / 0.978	2.93 / 0.116	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.8 / 0.583	370	16.6 / 0.654	530	19.8 / 0.780	670

* lbs/1,000ft(approx.)=kg/km × 0.67



600V Control Cable (with Overall Braid Shield)

Cable Designation / 600V

- C(OBS)PN, C(OBS)PNA, C(OBS)PNB, C(OBS)PNBS
- C(OS)LSEL, C(OS)LSELA, C(OS)LSELB, C(OS)LSELBS
- C(OBS)PM, C(OBS)PMA, C(OBS)PMB, C(OBS)PMBS

* Prefix "FS-" in case of Fire resistant cable.

Application Standard

- IEEE1580(2001), IEEE45(1998)
- UL 1309/CSA C22.2 No. 245(1995))
- IEEE1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21(FS Type Cable only)
- NEK 606

Application

- This cable is designed for control/signal circuits up to 600V.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties (FS Type Cable only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998, UL1309(X110)
  - Low smoke ethylene propylene rubber (Type LSE) according to IEEE 1580-2001, IEEE45-1998 & UL1309(Type E)
- Overall braid shield(OBS) : Tinned copper braid shield (85% coverage)over the cabled core.
- Jacket
  - Flame retardant thermosetting neoprene(Type N) according toIEEE 1580-2001, IEEE45-1998,UL1309
  - Flame retardant low smoke XLPO(TypeL) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC 60092-359 & NEK 606.
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Control Cable (with Overall Braid Shield)
Flame Retardant Cable

Flexible rope stranding

· 600V C(OBS)PN, C(OBS)PNA, C(OBS)PNB, C(OBS)PNBS
· 600V C(OBS)LSEL, C(OBS)LSELA, C(OBS)LSELB, C(OBS)LSELBS
· 600V C(OBS)PM, C(OBS)PMA, C(OBS)PMB, C(OBS)PMBS

(TINNED COPPER BRAID SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	160	11.5 / 0.453	270	14.9 / 0.587	370
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.8 / 0.386	170	11.6 / 0.457	280	15.0 / 0.591	380
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.6 / 0.417	200	12.4 / 0.488	310	15.8 / 0.622	430
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.4 / 0.488	270	14.2 / 0.559	410	17.4 / 0.685	530
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	460	18.3 / 0.720	640	22.6 / 0.890	850
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	660	21.4 / 0.843	870	25.7 / 1.012	1,110
15	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	610	20.3 / 0.799	810	24.6 / 0.969	1040
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.4 / 0.409	190	12.2 / 0.480	310	15.4 / 0.606	410
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	230	12.8 / 0.504	350	16.0 / 0.630	460
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.9 / 0.508	320	14.7 / 0.579	460	17.9 / 0.705	580
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	410	16.5 / 0.650	570	19.7 / 0.776	710
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	730	21.4 / 0.843	940	25.7 / 1.012	1,180
19	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	970	24.6 / 0.969	1,220	28.9 / 1.138	1,490
30	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,460	29.9 / 1.177	1,750	34.2 / 1.346	2,080
44	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.7 / 1.327	2,080	35.5 / 1.398	2,440	39.8 / 1.567	2,820
60	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.2 / 1.465	2,620	39.0 / 1.535	3,010	44.8 / 1.764	3,590
91	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	45.7 / 1.799	3,920	47.5 / 1.870	4,400	53.3 / 2.098	5,090

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V C(OBS)PN, C(OBS)PNA, C(OBS)PNB, C(OBS)PNBS
· 600V C(OBS)LSEL, C(OBS)LSELA, C(OBS)LSELB, C(OBS)LSELBS
· 600V C(OBS)PM, C(OBS)PMA, C(OBS)PMB, C(OBS)PMBS

(TINNED COPPER BRAID SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.9 / 0.390	160	11.7 / 0.461	280	15.1 / 0.594	380
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	160	11.5 / 0.453	270	14.9 / 0.587	380
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.5 / 0.413	190	12.3 / 0.484	310	15.7 / 0.618	420
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	260	13.9 / 0.547	390	17.1 / 0.673	510
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.2 / 0.638	440	18.0 / 0.709	620	22.3 / 0.878	820
20	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	620	20.9 / 0.823	830	25.2 / 0.992	1,060
15	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	620	20.5 / 0.807	830	24.8 / 0.976	1,060
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.6 / 0.417	200	12.4 / 0.488	310	15.6 / 0.614	420
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.2 / 0.441	230	13.0 / 0.512	360	16.2 / 0.638	470
5	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.1 / 0.516	320	14.9 / 0.587	470	18.1 / 0.713	590
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	420	16.7 / 0.657	590	19.9 / 0.783	720
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	760	21.8 / 0.858	970	26.1 / 1.028	1,210
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	1,010	25.0 / 0.984	1,260	29.3 / 1.154	1,530
30	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,500	30.2 / 1.189	1,800	4.5 / 1.358	2,130
44	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	2,130	35.9 / 1.413	2,490	40.2 / 1.583	2,880
60	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.6 / 1.480	2,690	39.4 / 1.551	3,090	45.2 / 1.780	3,670
91	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	46.3 / 1.823	4,050	48.1 / 1.894	4,540	53.9 / 2.122	5,240

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-C(OBS)PN, FS-C(OBS)PNA, FS-C(OBS)PNB, FS-C(OBS)PNBS
· 600V FS-C(OBS)LSEL, FS-C(OBS)LSELA, FS-C(OBS)LSELB, FS-C(OBS)LSELBS
· 600V FS-C(OBS)PM, FS-C(OBS)PMA, FS-C(OBS)PMB, FS -C(OBS)PMBS (TINNED COPPER BRAID SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.9 / 0.429	190	12.7 / 0.500	320	16.1 / 0.634	430
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	200	12.8 / 0.504	320	16.2 / 0.638	440
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	240	13.7 / 0.539	370	17.1 / 0.673	490
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	350	16.4 / 0.646	510	19.6 / 0.772	640
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	560	20.5 / 0.807	760	24.8 / 0.976	990
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	860	25.2 / 0.992	1,110	29.5 / 1.161	1,390
15	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.8 / 0.819	730	22.6 / 0.890	950	26.9 / 1.059	1,200
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.5 / 0.453	230	13.3 / 0.524	350	16.5 / 0.650	470
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.1 / 0.476	260	13.9 / 0.547	390	17.1 / 0.673	510
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.0 / 0.591	390	16.8 / 0.661	560	20.0 / 0.787	700
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.2 / 0.638	470	18.0 / 0.709	650	22.3 / 0.878	850
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	910	24.8 / 0.976	1,160	29.1 / 1.146	1,430
19	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	1,140	27.5 / 1.083	1,410	31.8 / 1.252	1,710
30	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,700	33.2 / 1.307	2,030	37.5 / 1.476	2,390
44	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.8 / 1.488	2,440	39.6 / 1.559	2,840	45.4 / 1.787	3,420
60	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	41.9 / 1.650	3,070	43.7 / 1.720	3,510	49.5 / 1.949	4,150
91	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	51.4 / 2.024	4,580	53.2 / 2.094	5,120	59.0 / 2.323	5,890

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V FS-C(OBS)PN, FS-C(OBS)PNA, FS-C(OBS)PNB, FS-C(OBS)PNBS
· 600V FS-C(OBS)LSEL, FS-C(OBS)LSELA, FS-C(OBS)LSELB, FS-C(OBS)LSELBS
· 600V FS-C(OBS)PM, FS-C(OBS)PMA, FS-C(OBS)PMB, FS -C(OBS)PMBS (TINNED COPPER BRAID SHIELD)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
4	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.4 / 0.449	210	13.2 / 0.520	330	16.6 / 0.654	450
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	200	12.8 / 0.504	320	16.2 / 0.638	440
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	230	13.7 / 0.539	360	17.1 / 0.673	490
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	350	16.5 / 0.650	510	19.7 / 0.776	650
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	550	20.5 / 0.807	750	24.8 / 0.976	980
20	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	860	25.2 / 0.992	1,110	29.5 / 1.161	1,380
15	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	830	24.4 / 0.961	1,070	28.7 / 1.130	1,340
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.9 / 0.469	230	13.7 / 0.539	370	16.9 / 0.665	480
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	270	14.3 / 0.563	410	17.5 / 0.689	530
5	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	410	17.3 / 0.681	580	20.5 / 0.807	720
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	500	18.6 / 0.732	680	22.9 / 0.902	900
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.8 / 0.937	970	25.6 / 1.008	1,220	29.9 / 1.177	1,500
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	1,210	28.3 / 1.114	1,490	32.6 / 1.283	1,800
30	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.4 / 1.276	1,800	34.2 / 1.346	2,140	38.5 / 1.516	2,510
44	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	2,560	40.8 / 1.606	2,970	46.6 / 1.835	3,570
60	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	44.7 / 1.760	3,410	46.5 / 1.831	3,880	52.3 / 2.059	4,550
91	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	53.1 / 2.091	4,870	54.9 / 2.161	5,420	60.7 / 2.390	6,220

* lbs/1,000ft(approx.)=kg/km × 0.67

ENERFLEX®

600V Signal Cable

- Overall Shield
- Overall Braid Shield
- Individual Shield
- Individual & Overall Shield

JS Cable

600V Signal Cable (with Overall Shield)

Cable Designation / 600V

- TP(OS)PN, TP(OS)PNA, TP(OS)PNB, TP(OS)PNBS
- TP(OS)LSEL, TP(OS)LSELA, TP(OS)LSELB , TP(OS)LSELBS,
- TP(OS)PM, TP(OS)PMA, TP(OS)PMB, TP(OS)PMBS,
- TT(OS)PN, TT(OS)PNA, TT(OS)PNB, TT(OS)PNBS,
- TT(OS)LSEL, TT(OS)LSELA , TT(OS)LSELB, TT(OS)LSELBS,
- TT(OS)PM, TT(OS)PMA, TT(OS)PMB, TT(OS)PMBS

* Prefix “FS-” in case of Fire resistant cable.

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)
- NEK 606

Application

- This cable is designed for signal circuits up to 600V.
- Suitable for use in commercial marine applications, MODU’s and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties (FS Type Cable only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type E)
- Twisting (Pair/Triad)
- Overall shield(OS) : AL/PS tape with tinned copper drain wire 100% coverage over the cabled core.
- Jacket
  - Flame retardant thermosetting neoprene (Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309
  - Flame retardant Low smoke XLPO(TypeL) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC 60092-359 & NEK606.
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Signal Cable (with Overall Shield) - Pair Twisted

Flame Retardant Cable

Class B stranding

· 600V TP(OS)PN, TP(OS)PNA, TP(OS)PNB, TP(OS)PNBS,
· 600V TP(OS)LSEL, TP(OS)LSELA, TP(OS)LSELB , TP(OS)LSELBS
· 600V TP(OS)PM, TP(OS)PMA, TP(OS)PMB, TP(OS)PMBS

(AL/ PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
12	22	19 / 0.160	0.79 / 0.031	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	450	21.6 / 0.850	660	26.1 / 1.028	920
3	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.8 / 0.504	190	14.6 / 0.575	320	18.0 / 0.709	460
4	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.3 / 0.563	240	16.1 / 0.634	390	19.3 / 0.760	530
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	180	14.3 / 0.563	310	17.7 / 0.697	440
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.1 / 0.555	240	15.9 / 0.626	390	19.3 / 0.760	540
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.0 / 0.591	280	16.8 / 0.661	440	20.2 / 0.795	600
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	420	18.5 / 0.728	610	23.0 / 0.906	850
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	420	19.7 / 0.776	610	24.2 / 0.953	850
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	470	20.8 / 0.819	670	25.3 / 0.996	920
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	640	24.2 / 0.953	870	28.7 / 1.130	1,160
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.3 / 0.917	710	25.1 / 0.988	960	29.6 / 1.165	1,250
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	790	26.0 / 1.024	1,040	30.5 / 1.201	1,350
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.1 / 1.028	900	27.9 / 1.098	1,170	32.4 / 1.276	1,500
19	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.2 / 1.071	1,010	29.0 / 1.142	1,290	33.5 / 1.319	1,630
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,260	32.5 / 1.280	1,570	37.0 / 1.457	1,950
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	180	14.3 / 0.563	310	17.7 / 0.697	440
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.1 / 0.555	240	15.9 / 0.626	390	19.3 / 0.760	540
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.0 / 0.591	280	16.8 / 0.661	440	20.2 / 0.795	600
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	420	18.5 / 0.728	610	23.0 / 0.906	850
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	420	19.7 / 0.776	610	24.2 / 0.953	850
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	470	20.8 / 0.819	670	25.3 / 0.996	920
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	640	24.2 / 0.953	870	28.7 / 1.130	1,160
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.3 / 0.917	710	25.1 / 0.988	960	29.6 / 1.165	1,250
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	790	26.0 / 1.024	1,040	30.5 / 1.201	1,350
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.1 / 1.028	900	27.9 / 1.098	1,170	32.4 / 1.276	1,500
19	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.2 / 1.071	1,010	29.0 / 1.142	1,290	33.5 / 1.319	1,630
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,260	32.5 / 1.280	1,570	37.0 / 1.457	1,950
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.0 / 0.591	270	16.8 / 0.661	430	20.2 / 0.795	590
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.1 / 0.634	340	17.9 / 0.705	510	22.4 / 0.882	730
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.1 / 0.673	410	18.9 / 0.744	590	23.4 / 0.921	820
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	630	20.9 / 0.823	850	25.4 / 1.000	1,110
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.5 / 0.807	630	22.3 / 0.878	850	26.8 / 1.055	1,110
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	770	24.8 / 0.976	1,010	29.3 / 1.154	1,310
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.9 / 1.020	950	27.7 / 1.091	1,220	32.2 / 1.268	1,540
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.9 / 1.059	1,080	28.7 / 1.130	1,360	33.2 / 1.307	1,690
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.0 / 1.102	1,210	29.8 / 1.173	1,500	34.3 / 1.350	1,850
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.0 / 1.181	1,370	31.8 / 1.252	1,680	36.3 / 1.429	2,050
19	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,560	33.2 / 1.307	1,890	37.7 / 1.484	2,270
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.5 / 1.398	1,950	37.3 / 1.469	2,320	41.8 / 1.646	2,750

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Class B stranding

· 600V TP(OS)PN, TP(OS)PNA, TP(OS)PNB, TP(OS)PNBS
· 600V TP(OS)LSEL, TP(OS)LSELA, TP(OS)LSELB, TP(OS)LSELBS
· 600V TP(OS)PM, TP(OS)PMA, TP(OS)PMB, TP(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km ·	mm/inch	kg/km ·	mm/inch	kg/km ·
2	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.7 / 0.461	150	13.5 / 0.531	280	16.9 / 0.665	410
3	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	190	14.3 / 0.563	320	17.7 / 0.697	450
4	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.3 / 0.524	220	15.1 / 0.594	370	18.5 / 0.728	500
7	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	340	18.5 / 0.728	520	23.0 / 0.906	740
8	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.7 / 0.697	380	19.5 / 0.768	570	24.0 / 0.945	800
10	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	450	21.6 / 0.850	670	26.1 / 1.028	920
12	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.6 / 0.811	510	22.4 / 0.882	740	26.9 / 1.059	1,000
14	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.5 / 0.886	630	24.3 / 0.957	880	28.8 / 1.134	1,160
16	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	710	25.9 / 1.020	970	30.4 / 1.197	1,270
19	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.4 / 1.000	810	27.2 / 1.071	1,080	31.7 / 1.248	1,390
24	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.6 / 1.126	990	30.4 / 1.197	1,290	34.9 / 1.374	1,640
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	12.5 / 0.492	180	14.3 / 0.563	320	17.7 / 0.697	450
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.1 / 0.555	250	15.9 / 0.626	400	19.3 / 0.760	540
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	290	16.7 / 0.657	450	20.1 / 0.791	600
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.8 / 0.701	410	19.6 / 0.772	600	24.1 / 0.949	830
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	460	20.8 / 0.819	660	25.3 / 0.996	910
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.4 / 0.882	610	24.2 / 0.953	850	28.7 / 1.130	1,130
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	690	25.0 / 0.984	940	29.5 / 1.161	1,230
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	770	25.9 / 1.020	1,020	30.4 / 1.197	1,320
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	860	27.8 / 1.094	1,140	32.3 / 1.272	1,460
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.2 / 1.071	980	29.0 / 1.142	1,270	33.5 / 1.319	1,600
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,200	32.4 / 1.276	1,530	36.9 / 1.453	1,900
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	220	15.0 / 0.591	360	18.4 / 0.724	490
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.8 / 0.583	290	16.6 / 0.654	450	20.0 / 0.787	600
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	350	17.6 / 0.693	520	21.0 / 0.827	670
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	500	20.7 / 0.815	700	25.2 / 0.992	940
8	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	550	21.9 / 0.862	770	26.4 / 1.039	1,030
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	740	25.5 / 1.004	990	30.0 / 1.181	1,290
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.8 / 0.976	840	26.6 / 1.047	1,100	31.1 / 1.224	1,410
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	940	27.5 / 1.083	1,210	32.0 / 1.260	1,530
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	1,060	29.4 / 1.157	1,350	33.9 / 1.335	1,690
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.8 / 1.134	1,200	30.6 / 1.205	1,510	35.1 / 1.382	1,860
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.5 / 1.280	1,480	34.3 / 1.350	1,830	38.8 / 1.528	2,220
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.2 / 0.598	300	17.0 / 0.669	470	20.4 / 0.803	620
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.2 / 0.638	370	18.0 / 0.709	550	22.5 / 0.886	760
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	450	19.1 / 0.752	630	23.6 / 0.929	860
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.8 / 0.819	650	22.6 / 0.890	870	27.1 / 1.067	1,130
8	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	790	25.0 / 0.984	1,030	29.5 / 1.161	1,320
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.2 / 1.031	960	28.0 / 1.102	1,230	32.5 / 1.280	1,560
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	1,090	29.1 / 1.146	1,380	33.6 / 1.323	1,720
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	1,230	30.1 / 1.185	1,530	34.6 / 1.362	1,870
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.4 / 1.197	1,380	32.2 / 1.268	1,710	36.7 / 1.445	2,070
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.8 / 1.252	1,590	33.6 / 1.323	1,920	38.1 / 1.500	2,300
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.9 / 1.413	1,960	37.7 / 1.484	2,340	42.2 / 1.661	2,760

· lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Class B stranding

· 600V FS-TP(OS)PN, FS-TP(OS)PNA, FS-TP(OS)PNB, FS-TP(OS)PNBS
· 600V FS-TP(OS)LSEL, FS-TP(OS) LSELA, FS-TP(OS)LSELB , FS-TP(OS)LSELBS
· 600V FS-TP(OS)PM, FS-TP(OS)PMA, FS-TP(OS)PMB, FS-TP(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km ·	mm/inch	kg/km ·	mm/inch	kg/km ·
12	22	19 / 0.160	0.79 / 0.031	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.3 / 0.957	650	26.1 / 1.028	900	30.6 / 1.205	1,210
3	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.4 / 0.606	260	17.2 / 0.677	420	20.6 / 0.81	1,580
4	20	19 / 0.201	0.99 / 0.039	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	300	18.2 / 0.717	470	22.5 / 0.886	690
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	250	17.1 / 0.673	410	20.5 / 0.807	560
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	300	18.2 / 0.717	470	22.7 / 0.894	700
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	350	19.2 / 0.756	540	23.7 / 0.933	770
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.5 / 0.768	530	21.3 / 0.839	750	25.8 / 1.016	1,020
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	21.0 / 0.827	530	22.8 / 0.898	750	27.3 / 1.075	1,020
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	800	28.3 / 1.114	1,080	32.8 / 1.291	1,410
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	800	28.3 / 1.114	1,080	32.8 / 1.291	1,410
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.5 / 1.083	900	29.3 / 1.154	1,180	33.8 / 1.331	1,530
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.6 / 1.126	1,000	30.4 / 1.197	1,290	34.9 / 1.374	1,650
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,130	32.5 / 1.280	1,450	37.0 / 1.457	1,820
19	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.1 / 1.264	1,270	33.9 / 1.335	1,600	38.4 / 1.512	2,000
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.3 / 1.429	1,590	38.1 / 1.500	1,960	44.1 / 1.736	2,550
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	270	17.7 / 0.697	440	22.2 / 0.874	660
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.0 / 0.669	330	18.8 / 0.740	510	23.3 / 0.917	740
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.1 / 0.713	400	19.9 / 0.783	590	24.4 / 0.961	830
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.3 / 0.799	660	22.1 / 0.870	900	26.6 / 1.047	1,190
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.9 / 0.902	660	24.7 / 0.972	900	29.2 / 1.150	1,190
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	740	26.2 / 1.031	990	30.7 / 1.209	1,300
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.5 / 1.083	910	29.3 / 1.154 1	190	33.8 / 1.331	1,530
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.6 / 1.126	1,020	30.4 / 1.197 1	310	34.9 / 1.374	1,670
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,130	31.5 / 1.240 1	440	36.0 / 1.417	1,810
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,290	33.7 / 1.327 1	610	38.2 / 1.504	2,010
19	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	1,460	35.2 / 1.386 1	800	39.7 / 1.563	2,210
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.8 / 1.488	1,820	39.6 / 1.559	2,210	45.6 / 1.795	2,820
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.1 / 0.673	330	18.9 / 0.744	510	23.4 / 0.921	740
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.3 / 0.720	410	20.1 / 0.791	600	24.6 / 0.969	840
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	490	21.4 / 0.843	700	25.9 / 1.020	950
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	820	24.9 / 0.980	1,080	29.4 / 1.157	1,390
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.9 / 0.980	820	26.7 / 1.051	1,080	31.2 / 1.228	1,390
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	920	28.3 / 1.114	1,190	32.8 / 1.291	1,530
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,130	31.5 / 1.240	1,440	36.0 / 1.417	1,800
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.0 / 1.220	1,280	32.8 / 1.291	1,600	37.3 / 1.469	1,980
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.2 / 1.268	1,430	34.0 / 1.339	1,770	38.5 / 1.516	2,160
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	1,630	36.4 / 1.433	1,980	40.9 / 1.610	2,400
19	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.2 / 1.425	1,850	38.0 / 1.496	2,230	44.0 / 1.732	2,820
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	41.1 / 1.618	2,320	42.9 / 1.689	2,740	48.9 / 1.925	3,410

· lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Class B stranding

· 600V FS-TP(OS)PN, FS-TP(OS)PNA, FS-TP(OS)PNB, FS-TP(OS)PNBS
· 600V FS-TP(OS)LSEL, FS-TP(OS)LSELA, FS-TP(OS)LSELB , FS-TP(OS)LSELBS
· 600V FS-TP(OS)PM, FS-TP(OS)PMA, FS-TP(OS)PMB, FS-TP(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.5 / 0.571	220	16.3 / 0.642	380	19.7 / 0.776	520
3	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	270	17.3 / 0.681	430	20.7 / 0.815	590
4	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	310	18.3 / 0.720	490	22.8 / 0.898	710
7	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	430	21.6 / 0.850	640	26.1 / 1.028	890
8	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.2 / 0.874	540	24.0 / 0.945	770	28.5 / 1.122	1,050
10	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.0 / 0.984	650	26.8 / 1.055	910	31.3 / 1.232	1,220
12	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	730	27.8 / 1.094	1,000	32.3 / 1.272	1,320
14	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.9 / 1.059	810	28.7 / 1.130	1,090	33.2 / 1.307	1,420
16	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.9 / 1.138	910	30.7 / 1.209	1,210	35.2 / 1.386	1,560
19	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.2 / 1.189	1,020	32.0 / 1.260	1,340	36.5 / 1.437	1,710
24	20	7 / 0.307	0.92 / 0.036	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	1,260	35.9 / 1.413	1,620	40.4 / 1.591	2,020
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	250	17.1 / 0.673	420	20.5 / 0.807	570
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	310	18.2 / 0.717	480	22.7 / 0.894	700
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	360	19.2 / 0.756	550	23.7 / 0.933	770
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	500	22.7 / 0.894	720	27.2 / 1.071	990
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	620	25.2 / 0.992	870	29.7 / 1.169	1,160
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.4 / 1.039	750	28.2 / 1.110	1,030	32.7 / 1.287	1,360
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.5 / 1.083	850	29.3 / 1.154	1,140	33.8 / 1.331	1,480
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.5 / 1.122	940	30.3 / 1.193	1,250	34.8 / 1.370	1,590
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,060	32.4 / 1.276	1,390	36.9 / 1.453	1,750
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.0 / 1.260	1,200	33.8 / 1.331	1,540	38.3 / 1.508	1,930
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.2 / 1.425	1,480	38.0 / 1.496	1,870	44.0 / 1.732	2,450
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	300	18.2 / 0.717	480	22.7 / 0.894	690
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	360	19.3 / 0.760	550	23.8 / 0.937	780
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	430	20.4 / 0.803	630	24.9 / 0.980	870
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	670	25.4 / 1.000	920	29.9 / 1.177	1,220
8	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	750	27.1 / 1.067	1,020	31.6 / 1.244	1,330
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	910	30.1 / 1.185	1,210	34.6 / 1.362	1,550
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,030	31.3 / 1.232	1,340	35.8 / 1.409	1,700
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,150	32.4 / 1.276	1,480	36.9 / 1.453	1,850
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	1,300	34.7 / 1.366	1,650	39.2 / 1.543	2,040
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.4 / 1.354	1,480	36.2 / 1.425	1,840	40.7 / 1.602	2,250
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	39.0 / 1.535	1,830	40.8 / 1.606	2,240	46.8 / 1.843	2,860
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	360	19.4 / 0.764	550	23.9 / 0.941	780
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	450	20.7 / 0.815	650	25.2 / 0.992	890
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	530	22.0 / 0.866	750	26.5 / 1.043	1,010
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	840	27.5 / 1.083	1,110	32.0 / 1.260	1,430
8	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	930	29.1 / 1.146	1,220	33.6 / 1.323	1,560
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,140	32.5 / 1.280	1,460	37.0 / 1.457	1,830
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,290	33.7 / 1.327	1,630	38.2 / 1.504	2,010
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.2 / 1.307	1,450	35.0 / 1.378	1,810	39.5 / 1.555	2,200
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.7 / 1.406	1,640	37.5 / 1.476	2,020	42.0 / 1.654	2,440
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	1,880	39.2 / 1.543	2,270	45.2 / 1.780	2,870
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.4 / 1.669	2,330	44.2 / 1.740	2,780	50.2 / 1.976	3,450

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Signal Cable (with Overall Shield) - Triad Twisted
Flame Retardant Cable

Flexible rope stranding

· 600V TT(OS)PN, TT(OS)PNA, TT(OS)PNB, TT(OS)PNBS
· 600V TT(OS)LSEL, TT(OS)LSELA, TT(OS)LSELB, TT(OS)LSELBS
· 600V TT(OS)PM, TT(OS)PMA, TT(OS)PMB, TT(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.2 / 0.362	120	11.0 / 0.433	220	14.4 / 0.567	330
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	260	16.7 / 0.657	420	20.1 / 0.791	570
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	310	17.6 / 0.693	490	21.0 / 0.827	640
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	380	19.1 / 0.752	570	23.6 / 0.929	800
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	460	20.8 / 0.819	670	25.3 / 0.996	910
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.5 / 0.886	650	24.3 / 0.957	890	28.8 / 1.134	1,180
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	730	25.8 / 1.016	990	30.3 / 1.193	1,290
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.6 / 1.126	1,030	30.4 / 1.197	1,330	34.9 / 1.374	1,680
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,290	33.4 / 1.315	1,620	37.9 / 1.492	2,000
1	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	140	11.4 / 0.449	250	14.8 / 0.583	350
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	290	17.3 / 0.681	460	20.7 / 0.815	610
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	360	18.3 / 0.720	540	22.8 / 0.898	760
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	440	19.8 / 0.780	640	24.3 / 0.957	870
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.9 / 0.783	540	21.7 / 0.854	750	26.2 / 1.031	1,000
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	760	25.4 / 1.000	1,010	29.9 / 1.177	1,310
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	850	27.0 / 1.063	1,120	31.5 / 1.240	1,430
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.0 / 1.181	1,200	31.8 / 1.252	1,520	36.3 / 1.429	1,880
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	1,510	34.9 / 1.374	1,860	39.4 / 1.551	2,250

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V TT(OS)PN, TT(OS)PNA, TT(OS)PNB, TT(OS)PNBS
· 600V TT(OS)LSEL, TT(OS)LSELA, TT(OS)LSELB ,TT(OS)LSELBS
· 600V TT(OS)PM, TT(OS)PMA, TT(OS)PMB, TT(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.0 / 0.354	120	10.8 / 0.425	220	14.2 / 0.559	320
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.4 / 0.567	260	16.2 / 0.638	420	19.6 / 0.772	560
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.3 / 0.602	320	17.1 / 0.673	490	20.5 / 0.807	640
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	370	18.5 / 0.728	550	23.0 / 0.906	770
5	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	440	20.3 / 0.799	640	24.8 / 0.976	880
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.8 / 0.819	570	22.6 / 0.890	790	27.1 / 1.067	1,060
9	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.9 / 0.980	780	26.7 / 1.051	1,040	31.2 / 1.228	1,350
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.7 / 1.091	970	29.5 / 1.161	1,270	34.0 / 1.339	1,610
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,220	32.4 / 1.276	1,550	36.9 / 1.453	1,920
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	1,420	34.7 / 1.366	1,760	39.2 / 1.543	2,160
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.4 / 1.433	1,730	38.2 / 1.504	2,120	44.2 / 1.740	2,700
1	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.7 / 0.382	150	11.5 / 0.453	260	14.9 / 0.587	370
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.6 / 0.614	320	17.4 / 0.685	490	20.8 / 0.819	640
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.6 / 0.654	400	18.4 / 0.724	580	22.9 / 0.902	800
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	460	20.0 / 0.787	660	24.5 / 0.965	890
5	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	550	21.9 / 0.862	770	26.4 / 1.039	1,020
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	780	25.5 / 1.004	1,040	30.0 / 1.181	1,330
9	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	980	28.8 / 1.134	1,260	33.3 / 1.311	1,590
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.2 / 1.189	1,230	32.0 / 1.260	1,550	36.5 / 1.437	1,920
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	1,560	35.2 / 1.386	1,920	39.7 / 1.563	2,310
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	36.0 / 1.417	1,810	37.8 / 1.488	2,190	42.3 / 1.665	2,620
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.8 / 1.567	2,230	41.6 / 1.638	2,650	47.6 / 1.874	3,280

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-TT(OS)PN, FS-TT(OS)PNA, FS-TT(OS)PNB, FS-TT(OS)PNBS
· 600V FS-TT(OS)LSEL, FS-TT(OS)LSELA, FS-TT(OS)LSELB ,FS-TT(OS)LSELBS
· 600V FS-TT(OS)PM, FS-TT(OS)PMA, FS-TT(OS)PMB, FS-TT(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.4 / 0.409	140	12.2 / 0.480	260	15.6 / 0.614	370
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	310	18.6 / 0.732	490	23.1 / 0.909	710
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	380	19.7 / 0.776	570	24.2 / 0.953	810
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	460	21.4 / 0.843	670	25.9 / 1.020	930
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.9 / 0.902	620	24.7 / 0.972	870	29.2 / 1.150	1.150
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	800	27.6 / 1.087	1,070	32.1 / 1.264	1.390
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.5 / 1.083	890	29.3 / 1.154	1,190	33.8 / 1.331	1.520
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	1,260	34.6 / 1.362	1,600	39.1 / 1.539	2,000
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.3 / 1.429	1,580	38.1 / 1.500	1,960	44.1 / 1.736	2,540
1	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.7 / 0.421	160	12.5 / 0.492	280	15.9 / 0.626	400
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	350	19.3 / 0.760	540	23.8 / 0.937	770
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	430	20.4 / 0.803	630	24.9 / 0.980	870
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.4 / 0.803	530	22.2 / 0.874	750	26.7 / 1.051	1,010
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	700	25.5 / 1.004	950	30.0 / 1.181	1,250
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.8 / 1.055	900	28.6 / 1.126	1,190	33.1 / 1.303	1,520
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.6 / 1.126	1,020	30.4 / 1.197	1,320	34.9 / 1.374	1,670
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	1,440	35.9 / 1.413	1,800	40.4 / 1.591	2,200
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.8 / 1.488	1,810	39.6 / 1.559	2,210	45.6 / 1.795	2,820

* lbs/1,000ft(approx.)=kg/km × 0.67

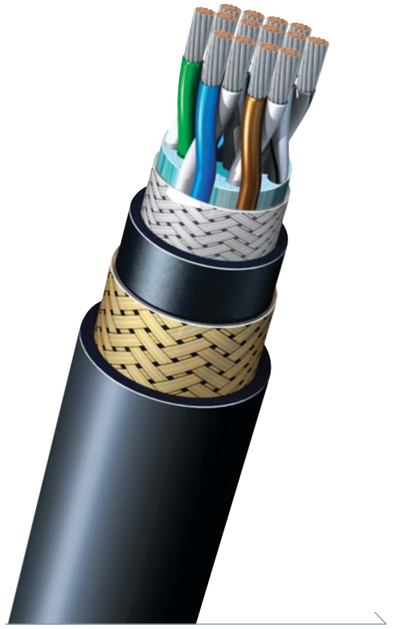
Class B stranding

· 600V FS-TT(OS)PN, FS-TT(OS)PNA, FS-TT(OS)PNB, FS-TT(OS)PNBS
· 600V FS-TT(OS)LSEL, FS-TT(OS)LSELA, FS-TT(OS)LSELB ,FS-TT(OS)LSELBS
· 600V FS-TT(OS)PM, FS-TT(OS)PMA, FS-TT(OS)PMB, FS-TT(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	150	12.1 / 0.476	260	15.5 / 0.610	370
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	320	18.6 / 0.732	500	23.1 / 0.909	720
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	390	19.7 / 0.776	590	24.2 / 0.953	820
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	440	21.4 / 0.843	660	25.9 / 1.020	910
5	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	590	24.6 / 0.969	840	29.1 / 1.146	1,120
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	760	27.5 / 1.083	1,040	32.0 / 1.260	1,350
9	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.2 / 1.150	950	31.0 / 1.220	1,260	35.5 / 1.398	1,610
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.7 / 1.287	1,190	34.5 / 1.358	1,540	39.0 / 1.535	1,930
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.2 / 1.425	1,500	38.0 / 1.496	1,880	44.0 / 1.732	2,460
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	1,730	40.8 / 1.606	2,140	46.8 / 1.843	2,770
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	44.7 / 1.760	2,290	46.5 / 1.831	2,760	52.5 / 2.067	3,460
1	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	180	12.8 / 0.504	300	16.2 / 0.638	420
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	380	19.8 / 0.780	580	24.3 / 0.957	810
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	470	20.9 / 0.823	680	25.4 / 1.000	930
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	21.0 / 0.827	540	22.8 / 0.898	760	27.3 / 1.075	1,030
5	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	720	26.2 / 1.031	980	30.7 / 1.209	1,280
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.6 / 1.087	930	29.4 / 1.157	1,220	33.9 / 1.335	1,560
9	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,150	33.2 / 1.307	1,480	37.7 / 1.484	1,860
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.2 / 1.386	1,460	37.0 / 1.457	1,830	41.5 / 1.634	2,250
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	1,850	40.8 / 1.606	2,260	46.8 / 1.843	2,880
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.0 / 1.654	2,140	43.8 / 1.724	2,580	49.8 / 1.961	3,250
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	48.1 / 1.894	2,810	49.9 / 1.965	3,320	55.9 / 2.201	4,070

* lbs/1,000ft(approx.)=kg/km × 0.67



600V Signal Cable

(with Overall Braid Shield)-Pair Twisted

Cable Designation / 600V

- TP(OBS)PN, TP(OBS)PNA, TP(OBS)PNB, TP(OBS)PNBS,
- TP(OBS)LSEL, TP(OBS)LSELA,
- TP(OBS)LSELB, TP(OBS)LSELBS
- TP(OBS)PM, TP(OBS)PMA, TP(OBS)PMB, TP(OBS)PMBS

* Prefix “FS-” in case of Fire resistant cable.

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309(1995)/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)
- NEK 606

Application

- This cable is designed for signal circuits up to 600V.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties (FS Type Cable only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type E)
- Twisting (Pair/Triad)
- Overall shield(OS) : Tinned copper braid shield (85% coverage) over the cabled core.
- Jacket
  - Flame retardant thermosetting neoprene (Type N) according to IEEE 1580-2001, IEEE45-1998 & UL1309
  - Flame retardant low smoke XLPO(Type L) according to IEEE 1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC60092-359 & NEK606.
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Signal Cable (with Overall Braid Shield) - Pair Twisted

Flame Retardant Cable

Flexible rope stranding

· 600V TP(OBS)PN, TP(OBS)PNA, TP(OBS)PNB, TP(OBS)PNBS
· 600V TP(OBS)LSEL,TP(OBS)LSELA, TP(OBS)LSELB, TP(OBS)LSELBS
· 600V TP(OBS)PM, TP(OBS)PMA, TP(OBS)PMB, TP(OBS)PMBS

(TINNED COPPER BRAID SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.4 / 0.370	120	11.2 / 0.441	220	14.6 / 0.575	330
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.3 / 0.563	230	16.1 / 0.634	390	19.5 / 0.768	530
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.1 / 0.634	290	17.9 / 0.705	470	22.4 / 0.882	670
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	400	20.9 / 0.823	600	25.4 / 1.000	840
9	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	560	24.9 / 0.980	810	29.4 / 1.157	1,080
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	590	25.5 / 1.004	840	30.0 / 1.181	1,120
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.8 / 1.016	690	27.6 / 1.087	970	32.1 / 1.264	1,270
15	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.4 / 1.039	720	28.2 / 1.110	1,000	32.7 / 1.287	1,310

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V TP(OBS)PN, TP(OBS)PNA, TP(OBS)PNB, TP(OBS)PNBS
· 600V TP(OBS)LSEL,TP(OBS)LSELA, TP(OBS)LSELB, TP(OBS)LSELBS
· 600V TP(OBS)PM, TP(OBS)PMA, TP(OBS)PMB, TP(OBS)PMBS

(TINNED COPPER BRAID SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.3 / 0.366	120	11.1 / 0.437	230	14.5 / 0.571	330
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.3 / 0.524	220	15.1 / 0.594	370	18.5 / 0.728	500
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	290	16.7 / 0.657	450	20.1 / 0.791	600
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	330	17.5 / 0.689	500	20.9 / 0.823	660
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	460	20.4 / 0.803	660	24.9 / 0.980	900
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	510	21.6 / 0.850	730	26.1 / 1.028	980
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	680	25.0 / 0.984	930	29.5 / 1.161	1,220
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	760	25.8 / 1.016	1,010	30.3 / 1.193	1,310
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.9 / 0.980	840	26.7 / 1.051	1,110	31.2 / 1.228	1,410
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.8 / 1.055	940	28.6 / 1.126	1,230	33.1 / 1.303	1,560
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.0 / 1.102	1,070	29.8 / 1.173	1,360	34.3 / 1.350	1,700
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,300	33.2 / 1.307	1,630	37.7 / 1.484	2,010

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-TP(OBS)PN, FS -TP(OBS)PNA, FS-TP(OBS)PNB, FS-TP(OBS)PNBS
· 600V FS-TP(OBS)LSEL, FS-TP(OBS)LSELA, FS-TP(OBS)LSELB, FS-TP(OBS)LSELBS
· 600V FS-TP(OBS)PM, FS-TP(OBS)PMA, FS-TP(OBS)PMB, FS-TP(OBS)PMBS (TINNED COPPER BRAID SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.4 / 0.409	140	12.2 / 0.480	250	15.6 / 0.614	370
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	280	17.8 / 0.701	450	22.3 / 0.878	660
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.1 / 0.713	360	19.9 / 0.783	550	24.4 / 0.961	780
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	550	24.6 / 0.969	800	29.1 / 1.146	1,070
9	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.6 / 1.047	700	28.4 / 1.118	980	32.9 / 1.295	1,290
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	740	29.1 / 1.146	1,030	33.6 / 1.323	1,340
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.4 / 1.157	870	31.2 / 1.228	1,180	35.7 / 1.406	1,520
15	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.1 / 1.185	900	31.9 / 1.256	1,220	36.4 / 1.433	1,570

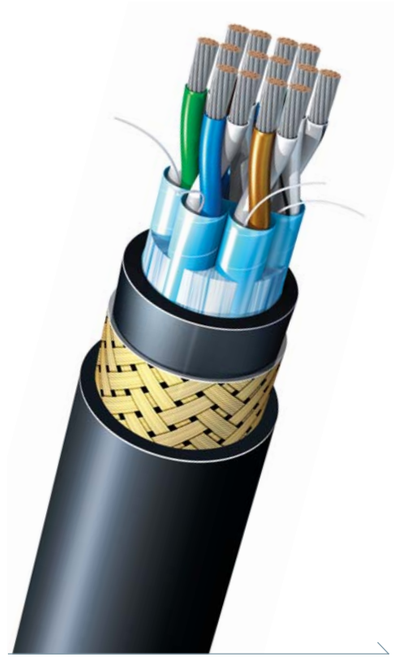
* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V FS-TP(OBS)PN, FS -TP(OBS)PNA, FS-TP(OBS)PNB, FS-TP(OBS)PNBS,
· 600V FS-TP(OBS)LSEL, FS-TP(OBS)LSELA, FS-TP(OBS)LSELB, FS-TP(OBS)LSELBS,
· 600V FS-TP(OBS)PM, FS-TP(OBS)PMA, FS-TP(OBS)PMB, FS-TP(OBS)PMBS (TINNED COPPER BRAID SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.5 / 0.413	150	12.3 / 0.484	260	15.7 / 0.618	380
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.1 / 0.634	300	17.9 / 0.705	470	22.4 / 0.882	690
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.2 / 0.677	360	19.0 / 0.748	540	23.5 / 0.925	770
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	410	20.0 / 0.787	610	24.5 / 0.965	840
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	620	24.6 / 0.969	870	29.1 / 1.146	1,150
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	690	26.0 / 1.024	950	30.5 / 1.201	1,250
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.2 / 1.071	830	29.0 / 1.142	1,120	33.5 / 1.319	1,450
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	930	30.1 / 1.185	1,230	34.6 / 1.362	1,580
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.3 / 1.154	1,030	31.1 / 1.224	1,340	35.6 / 1.402	1,700
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,160	33.2 / 1.307	1,490	37.7 / 1.484	1,870
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	1,310	34.6 / 1.362	1,650	39.1 / 1.539	2,050
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.0 / 1.457	1,600	38.8 / 1.528	1,990	44.8 / 1.764	2,590

* lbs/1,000ft(approx.)=kg/km × 0.67



600V Signal Cable

(with Individual Shield)-Pair Twisted

Cable Designation / 600V

- TP(I/S)PN, TP(I/S)PNA, TP(I/S)PNB, TP(I/S)PNBS
- TP(I/S)LSEL, TP(I/S)LSELA, TP(I/S)LSELB, TP(I/S)LSELBS
- TP(I/S)PM, TP(I/S)PMA, TP(I/S)PMB, TP(I/S)PMBS

* Prefix "FS-" in case of Fire resistant cable.

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21 (FS Type Cable only)
- NEK 606

Application

- This cable is designed for signal circuits up to 600V.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties (FS Type Cable only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility
  - Mud resistant properties (Mud resistant Type Cable only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE)according to IEEE1580-2001, IEEE45-1998 & UL1309(Type E)
- Twisting (Pair/Triad)
- Overall shield(OS) : AL/PS tape with tinned copper drain wire 100% coverage over the cabled core.
- Jacket
  - Flame retardant thermosetting neoprene (Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309
  - Flame retardant low smoke XLPO(Type L) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC60092-359 & NEK606.
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Signal Cable (with Individual Shield) - Pair Twisted

Flame Retardant Cable

Flexible rope stranding

· 600V TP(I/S)PN, TP(I/S)PNA, TP(I/S)PNB, TP(I/S)PNBS
· 600V TP(I/S)LSEL, TP(I/S)LSELA, TP(I/S)LSELB, TP(I/S)LSELBS
· 600V TP(I/S)PM, TP(I/S)PMA, TP(I/S)PMB, TP(I/S)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km ·	mm/inch	kg/km ·	mm/inch	kg/km ·
1	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	8.9 / 0.350	100	10.7 / 0.421	200	14.1 / 0.555	300
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.2 / 0.520	200	15.0 / 0.591	350	18.4 / 0.724	480
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	280	16.7 / 0.657	440	20.1 / 0.791	590
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	340	17.6 / 0.693	510	21.0 / 0.827	660
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.7 / 0.697	410	19.5 / 0.768	600	24.0 / 0.945	830
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	470	20.7 / 0.815	680	25.2 / 0.992	920
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	510	20.7 / 0.815	720	25.2 / 0.992	960
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	580	22.0 / 0.866	800	26.5 / 1.043	1,060
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.8 / 0.937	780	25.6 / 1.008	1,030	30.1 / 1.185	1,330
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.9 / 0.980	880	26.7 / 1.051	1,150	31.2 / 1.228	1,460
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.9 / 1.020	990	27.7 / 1.091	1,260	32.2 / 1.268	1,580
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.7 / 1.091	1,120	29.5 / 1.161	1,410	34.0 / 1.339	1,750
18	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.0 / 1.142	1,240	30.8 / 1.213	1,540	35.3 / 1.390	1,900
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.6 / 1.165	1,330	31.4 / 1.236	1,650	35.9 / 1.413	2,000
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.7 / 1.287	1,590	34.5 / 1.358	1,940	39.0 / 1.535	2,330
1	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.2 / 0.362	120	11.0 / 0.433	220	14.4 / 0.567	320
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.5 / 0.571	250	16.3 / 0.642	410	19.7 / 0.776	560
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	320	17.3 / 0.681	490	20.7 / 0.815	640
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.5 / 0.650	390	18.3 / 0.720	570	22.8 / 0.898	790
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	480	20.3 / 0.799	680	24.8 / 0.976	920
6	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	560	21.6 / 0.850	770	26.1 / 1.028	1,020
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	610	21.6 / 0.850	820	26.1 / 1.028	1,070
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.2 / 0.874	740	24.0 / 0.945	980	28.5 / 1.122	1,260
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.0 / 0.984	910	26.8 / 1.055	1,180	31.3 / 1.232	1,490
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	1,040	27.8 / 1.094	1,310	32.3 / 1.272	1,630
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	1,160	28.8 / 1.134	1,450	33.3 / 1.311	1,780
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.0 / 1.142	1,320	30.8 / 1.213	1,630	35.3 / 1.390	1,980
18	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.3 / 1.193	1,460	32.1 / 1.264	1,780	36.6 / 1.441	2,150
20	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.0 / 1.220	1,580	32.8 / 1.291	1,910	37.3 / 1.469	2,290
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.3 / 1.350	1,890	36.1 / 1.421	2,250	40.6 / 1.598	2,660
1	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.9 / 0.390	150	11.7 / 0.461	260	15.1 / 0.594	370
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	320	17.5 / 0.689	490	20.9 / 0.823	640
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	410	18.6 / 0.732	590	23.1 / 0.909	820
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	510	19.7 / 0.776	700	24.2 / 0.953	930
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	620	21.9 / 0.862	840	26.4 / 1.039	1,100
6	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	790	24.5 / 0.965	1,030	29.0 / 1.142	1,310
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	860	24.5 / 0.965	1,100	29.0 / 1.142	1,390
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	970	26.0 / 1.024	1,230	30.5 / 1.201	1,530
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	1,190	29.1 / 1.146	1,480	33.6 / 1.323	1,820
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,370	30.2 / 1.189	1,670	34.7 / 1.366	2,020
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,550	31.3 / 1.232	1,860	35.8 / 1.409	2,220
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.7 / 1.248	1,760	33.5 / 1.319	2,100	38.0 / 1.496	2,480
18	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	1,950	34.9 / 1.374	2,300	39.4 / 1.551	2,700
20	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.9 / 1.335	2,120	35.7 / 1.406	2,480	40.2 / 1.583	2,880
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.5 / 1.476	2,540	39.3 / 1.547	2,930	45.3 / 1.783	3,530

· lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Class B stranding

· 600V TP(I/S)PN, TP(I/S)PNA, TP(I/S)PNB, TP(I/S)PNBS
· 600V TP(I/S)LSEL, TP(I/S)LSELA, TP(I/S)LSELB, TP(I/S)LSELBS
· 600V TP(I/S)PM, TP(I/S)PMA, TP(I/S)PMB, TP(I/S)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km ·	mm/inch	kg/km ·	mm/inch	kg/km ·
1	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.14 / 0.045	8.7 / 0.343	100	10.5 / 0.413	200	13.2 / 0.520	270
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.0 / 0.512	180	14.8 / 0.583	320	18.2 / 0.717	460
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	260	16.4 / 0.646	410	19.8 / 0.780	560
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	310	17.3 / 0.681	480	20.7 / 0.815	630
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	470	20.3 / 0.799	670	24.8 / 0.976	910
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.7 / 0.776	520	21.5 / 0.846	740	26.0 / 1.024	990
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	700	25.0 / 0.984	950	29.5 / 1.161	1,240
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	800	25.9 / 1.020	1,050	30.4 / 1.197	1,350
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	900	27.0 / 1.063	1,160	31.5 / 1.240	1,480
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	1,010	28.8 / 1.134	1,300	33.3 / 1.311	1,630
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.2 / 1.110	1,150	30.0 / 1.181	1,450	34.5 / 1.358	1,800
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,430	33.7 / 1.327	1,760	38.2 / 1.504	2,150
1	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.6 / 0.378	130	11.4 / 0.449	230	14.8 / 0.583	340
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.9 / 0.587	260	16.7 / 0.657	420	20.1 / 0.791	570
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	320	17.7 / 0.697	500	22.2 / 0.874	710
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	390	18.7 / 0.736	580	23.2 / 0.913	800
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	610	22.0 / 0.866	830	26.5 / 1.043	1,080
8	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	750	24.5 / 0.965	990	29.0 / 1.142	1,270
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.5 / 1.004	910	27.3 / 1.075	1,180	31.8 / 1.252	1,490
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	1,040	28.3 / 1.114	1,320	32.8 / 1.291	1,650
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.5 / 1.083	1,170	29.3 / 1.154	1,460	33.8 / 1.331	1,800
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,320	31.3 / 1.232	1,630	35.8 / 1.409	1,990
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.9 / 1.217	1,520	32.7 / 1.287	1,840	37.2 / 1.465	2,220
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.8 / 1.370	1,880	36.6 / 1.441	2,250	41.1 / 1.618	2,660
1	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.3 / 0.406	160	12.1 / 0.476	270	15.5 / 0.610	380
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.2 / 0.638	320	18.0 / 0.709	500	22.5 / 0.886	710
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.3 / 0.681	420	19.1 / 0.752	600	23.6 / 0.929	830
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.4 / 0.724	510	20.2 / 0.795	710	24.7 / 0.972	950
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	870	25.0 / 0.984	1,110	29.5 / 1.161	1,400
8	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.7 / 0.972	970	26.5 / 1.043	1,240	31.0 / 1.220	1,540
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.9 / 1.098	1,190	29.7 / 1.169	1,490	34.2 / 1.346	1,830
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.0 / 1.142	1,370	30.8 / 1.213	1,680	35.3 / 1.390	2,030
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.1 / 1.185	1,550	31.9 / 1.256	1,870	36.4 / 1.433	2,240
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.3 / 1.272	1,760	34.1 / 1.343	2,100	38.6 / 1.520	2,490
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.8 / 1.331	2,030	35.6 / 1.402	2,390	40.1 / 1.579	2,790
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.3 / 1.508	2,530	40.1 / 1.579	2,930	46.1 / 1.815	3,540

· lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-TP(I/S)PN, FS -TP(I/S)PNA, FS -TP(I/S)PNB, FS -TP(I/S)PNBS
· 600V FS-TP(I/S)LSEL, FS -TP(I/S)LSELA, FS -TP(I/S)LSELB, FS - TP(I/S)LSELBS
· 600V FS-TP(I/S)PM, FS -TP(I/S)PMA, FS -TP(I/S)PMB, FS -TP(I/S)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	9.9 / 0.390	120	11.7 / 0.461	230	15.1 / 0.594	340
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	270	17.5 / 0.689	440	20.9 / 0.823	590
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	330	18.6 / 0.732	510	23.1 / 0.909	740
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	400	19.7 / 0.776	590	24.2 / 0.953	830
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	490	21.9 / 0.862	710	26.4 / 1.039	960
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	620	24.4 / 0.961	870	28.9 / 1.138	1,150
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.6 / 0.890	670	24.4 / 0.961	910	28.9 / 1.138	1,190
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	750	25.9 / 1.020	1,010	30.4 / 1.197	1,310
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.2 / 1.071	930	29.0 / 1.142	1,220	33.5 / 1.319	1,550
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	1,050	30.1 / 1.185	1,350	34.6 / 1.362	1,690
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.4 / 1.157	1,170	31.2 / 1.228	1,480	35.7 / 1.406	1,840
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,330	33.4 / 1.315	1,670	37.9 / 1.492	2,050
18	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	1,470	34.9 / 1.374	1,820	39.4 / 1.551	2,220
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.8 / 1.330	1,590	35.6 / 1.402	1,940	40.1 / 1.579	2,350
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	1,900	39.2 / 1.543	2,290	45.2 / 1.780	2,890
1	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.2 / 0.402	140	12.0 / 0.472	250	15.4 / 0.606	360
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.3 / 0.642	300	18.1 / 0.713	480	22.6 / 0.890	690
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	380	19.2 / 0.756	560	23.7 / 0.933	790
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	460	20.4 / 0.803	660	24.9 / 0.980	900
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	560	22.7 / 0.894	780	27.2 / 1.071	1,050
6	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.5 / 0.925	710	25.3 / 0.996	960	29.8 / 1.173	1,260
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.5 / 0.925	770	25.3 / 0.996	1,020	29.8 / 1.173	1,310
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	870	27.0 / 1.063	1,130	31.5 / 1.240	1,440
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	1,070	30.1 / 1.185	1,370	34.6 / 1.362	1,710
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.4 / 1.157	1,210	31.2 / 1.228	1,520	35.7 / 1.406	1,880
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,360	32.4 / 1.276	1,680	36.9 / 1.453	2,050
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	1,540	34.6 / 1.362	1,890	39.1 / 1.539	2,280
18	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.4 / 1.354	1,710	36.2 / 1.425	2,070	40.7 / 1.602	2,480
20	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.1 / 1.382	1,850	36.9 / 1.453	2,220	41.4 / 1.630	2,630
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	2,210	40.8 / 1.606	2,620	46.8 / 1.843	3,250
1	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.0 / 0.433	170	12.8 / 0.504	290	16.2 / 0.638	410
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	370	19.3 / 0.760	560	23.8 / 0.937	790
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	470	20.6 / 0.811	670	25.1 / 0.988	920
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	580	21.8 / 0.858	790	26.3 / 1.035	1,050
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	770	25.4 / 1.000	1,020	29.9 / 1.177	1,320
6	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.5 / 1.004	900	27.3 / 1.075	1,170	31.8 / 1.252	1,480
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.5 / 1.004	980	27.3 / 1.075	1,250	31.8 / 1.252	1,560
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.2 / 1.071	1,100	29.0 / 1.142	1,390	33.5 / 1.319	1,720
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.5 / 1.201	1,360	32.3 / 1.272	1,680	36.8 / 1.449	2,050
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.8 / 1.252	1,560	33.6 / 1.323	1,900	38.1 / 1.500	2,280
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.0 / 1.299	1,760	34.8 / 1.370	2,100	39.3 / 1.547	2,500
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.5 / 1.398	2,000	37.3 / 1.469	2,370	41.8 / 1.646	2,790
18	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.2 / 1.465	2,220	39.0 / 1.535	2,610	45.0 / 1.772	3,210
20	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.0 / 1.496	2,410	39.8 / 1.567	2,810	45.8 / 1.803	3,410
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.2 / 1.661	2,880	44.0 / 1.732	3,330	50.0 / 1.969	4,000

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

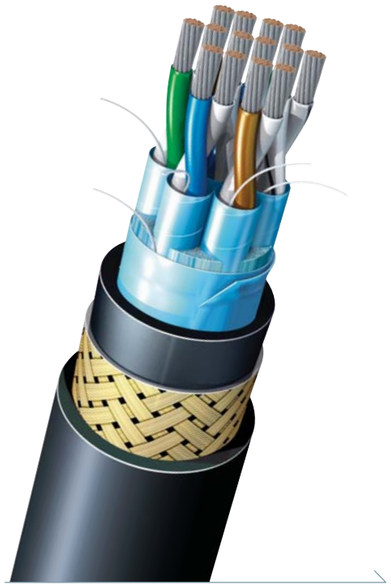
Class B stranding

· 600V FS-TP(I/S)PN, FS-TP(I/S)PNA, FS-TP(I/S)PNB, FS-TP(I/S)PNBS
· 600V FS-TP(I/S)LSEL, FS-TP(I/S)LSELA, FS -TP(I/S)LSELB, FS-TP(I/S)LSELBS
· 600V FS-TP(I/S)PM, FS-TP(I/S)PMA, FS -TP(I/S)PMB, FS-TP(I/S)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.0 / 0.394	120	11.8 / 0.465	230	15.2 / 0.598	340
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	240	17.6 / 0.693	420	21.0 / 0.827	570
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	310	18.7 / 0.736	490	23.2 / 0.913	710
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	370	19.8 / 0.780	560	24.3 / 0.957	800
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	620	24.5 / 0.965	860	29.0 / 1.142	1,150
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	690	25.9 / 1.020	950	30.4 / 1.197	1,250
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	840	29.1 / 1.146	1,130	33.6 / 1.323	1,470
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	960	30.1 / 1.185	1,260	34.6 / 1.362	1,600
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.4 / 1.157	1,070	31.2 / 1.228	1,390	35.7 / 1.406	1,740
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,210	33.4 / 1.315	1,550	37.9 / 1.492	1,930
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	1,380	34.9 / 1.374	1,730	39.4 / 1.551	2,130
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	1,710	39.2 / 1.543	2,110	45.2 / 1.780	2,710
1	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	10.8 / 0.425	150	12.6 / 0.496	270	16.0 / 0.630	380
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.0 / 0.669	300	18.8 / 0.740	480	23.3 / 0.917	710
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	380	20.0 / 0.787	570	24.5 / 0.965	810
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.4 / 0.764	460	21.2 / 0.835	670	25.7 / 1.012	920
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	770	26.2 / 1.031	1,030	30.7 / 1.209	1,340
8	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.2 / 1.031	870	28.0 / 1.102	1,150	32.5 / 1.280	1,470
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.4 / 1.157	1,060	31.2 / 1.228	1,370	35.7 / 1.406	1,730
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,210	32.4 / 1.276	1,530	36.9 / 1.453	1,900
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.7 / 1.248	1,360	33.5 / 1.319	1,690	38.0 / 1.496	2,070
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	1,530	35.9 / 1.413	1,890	40.4 / 1.591	2,300
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.7 / 1.406	1,760	37.5 / 1.476	2,140	42.0 / 1.654	2,560
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.4 / 1.591	2,180	42.2 / 1.661	2,610	48.2 / 1.898	3,250
1	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	11.6 / 0.457	180	13.4 / 0.528	310	16.8 / 0.661	430
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.3 / 0.720	370	20.1 / 0.791	560	24.6 / 0.969	800
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.6 / 0.772	470	21.4 / 0.843	680	25.9 / 1.020	930
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	580	22.7 / 0.894	800	27.2 / 1.071	1,070
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.5 / 1.043	980	28.3 / 1.114	1,260	32.8 / 1.291	1,590
8	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	1,100	30.1 / 1.185	1,400	34.6 / 1.362	1,750
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.7 / 1.248	1,350	33.5 / 1.319	1,680	38.0 / 1.496	2,060
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.0 / 1.299	1,550	34.8 / 1.370	1,900	39.3 / 1.547	2,290
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.3 / 1.350	1,750	36.1 / 1.421	2,110	40.6 / 1.598	2,520
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.9 / 1.453	1,980	38.7 / 1.524	2,370	44.7 / 1.760	2,970
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.7 / 1.524	2,290	40.5 / 1.594	2,700	53.1 / 2.091	4,200
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	45.3 / 1.783	3,010	47.1 / 1.854	3,490	53.1 / 2.091	4,200

* lbs/1,000ft(approx.)=kg/km × 0.67



600V Signal Cable
(with Individual & Overall Shield)

Cable Designation / 600V

- TP(I/S-OS)PN, TP(I/S-OS)PNA, TP(I/S-OS)PNB, TP(I/S-OS)PNBS
- TP(I/S-OS)LSEL, TP(I/S-OS)LSELA , TP(I/S-OS)LSELB, TP(I/S-OS)LSELBS
- TP(I/S-OS)PM, TP(I/S-OS)PMA,TP(I/S-OS)PMB, TP(I/S-OS)PMBS
- TT(I/S-OS)PN, TT(I/S-OS)PNA, TT(I/S-OS)PNB , TT(I/S-OS)PNBS
- TT(I/S-OS)LSEL, TT(I/S-OS)LSELA , TT(I/S-OS)LSELB, TT(I/S-OS)LSELBS
- TT(I/S-OS)PM, TT(I/S-OS)PMA, TT(I/S-OS)PMB, TT(I/S-OS)PMBS

* Prefix "FS-" in case of Fire resistant cable.

Application Standard

- IEEE 1580(2001), IEEE 45(1998)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)
- IEC 60331-21(FS Type Cable only)
- NEK 606

Application

- This cable is designed for signal circuits up to 600V.
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant
  - Fire resistant properties (FS Type Cable only)
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility (Mud resistant Type Cable only)

Construction

- Conductor : Soft annealed tinned copper to ASTM B33 flexible rope stranding or Class B.
- Fire Resisting Layer(Optional) : Mica tape (FS Type cable only).
- Insulation
  - Cross-linked polyolefin (Type P) according to IEEE1580-2001, IEEE45-1998 & UL1309(X110)
  - Low smoke ethylene propylene rubber(Type LSE) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type E)
- Twisting (Pair/Triad)
- Individual shield(I/S) : AL/PS tape with tinned copper drain wire 100% coverage over the cabled core.
- Overall shield(OS) : AL/PS tape with tinned copper drain wire 100% coverage over the cabled core.
- Jacket
  - Flame retardant thermosetting neoprene (Type N) according to IEEE1580-2001, IEEE45-1998 & UL1309
  - Flame retardant low smoke XLPO(Type L) according to IEEE1580-2001, IEEE45-1998 & UL1309(Type XP)
  - Flame retardant mud resistant XLPO(Type M) according to IEC 60092-359 & NEK606.
- Armor(Optional) : Bronze, Aluminum or Tinned copper
- Sheath(Optional) : The same as Jacket

600V Signal Cable(with Individual & Overall Shield) - Pair Twisted
Flame Retardant Cable

Flexible rope stranding

· 600V TP(I/S-OS)PN, TP(I/S-OS)PNA, TP(I/S-OS)PNB, TP(I/S-OS)PNBS
· 600V TP(I/S-OS)LSEL, TP(I/S-OS)LSELA, TP(I/S-OS)LSELB, TP(I/S-OS)LSELBS
· 600V TP(I/S-OS)PM, TP(I/S-OS)PMA, TP(I/S-OS)PMB, TP(I/S-OS)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.3 / 0.524	220	15.1 / 0.594	360	18.5 / 0.728	500
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.0 / 0.591	300	16.8 / 0.661	460	20.2 / 0.795	610
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	15.9 / 0.626	350	17.7 / 0.697	520	22.2 / 0.874	740
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.8 / 0.701	430	19.6 / 0.772	620	24.1 / 0.949	850
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	490	20.8 / 0.819	700	25.3 / 0.996	940
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	530	20.8 / 0.819	740	25.3 / 0.996	980
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.3 / 0.799	600	22.1 / 0.870	820	26.6 / 1.047	1,080
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.9 / 0.941	800	25.7 / 1.012	1,050	30.2 / 1.189	1,350
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.0 / 0.984	900	26.8 / 1.055	1,170	31.3 / 1.232	1,480
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	1,010	27.8 / 1.094	1,290	32.3 / 1.272	1,610
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.8 / 1.094	1,140	29.6 / 1.165	1,440	34.1 / 1.343	1,780
18	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,260	30.9 / 1.217	1,570	35.4 / 1.394	1,920
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,360	31.5 / 1.240	1,670	36.0 / 1.417	2,030
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	1,620	34.6 / 1.362	1,960	39.1 / 1.539	2,350
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	270	16.4 / 0.646	430	19.8 / 0.780	580
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.6 / 0.614	340	17.4 / 0.685	510	20.8 / 0.819	660
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.6 / 0.654	410	18.4 / 0.724	590	22.9 / 0.902	810
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.6 / 0.732	500	20.4 / 0.803	700	24.9 / 0.980	940
6	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.9 / 0.783	580	21.7 / 0.854	790	26.2 / 1.031	1,050
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.9 / 0.783	630	21.7 / 0.854	840	26.2 / 1.031	1,100
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.3 / 0.878	760	24.1 / 0.949	1,000	28.6 / 1.126	1,280
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.1 / 0.988	930	26.9 / 1.059	1,200	31.4 / 1.236	1,510
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.1 / 1.028	1,060	27.9 / 1.098	1,340	32.4 / 1.276	1,660
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.1 / 1.067	1,190	28.9 / 1.138	1,480	33.4 / 1.315	1,810
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,350	30.9 / 1.217	1,660	35.4 / 1.394	2,010
18	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.4 / 1.197	1,490	32.2 / 1.268	1,810	36.7 / 1.445	2,180
20	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.1 / 1.224	1,610	32.9 / 1.295	1,940	37.4 / 1.472	2,320
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.4 / 1.354	1,920	36.2 / 1.425	2,290	40.7 / 1.602	2,700
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	350	17.6 / 0.693	520	21.0 / 0.827	670
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	440	18.7 / 0.736	620	23.2 / 0.913	840
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	530	19.8 / 0.780	730	24.3 / 0.957	960
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	650	22.0 / 0.866	870	26.5 / 1.043	1,130
6	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	820	24.6 / 0.969	1,060	29.1 / 1.146	1,350
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	890	24.6 / 0.969	1,130	29.1 / 1.146	1,420
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.3 / 0.957	1,000	26.1 / 1.028	1,260	30.6 / 1.205	1,560
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.4 / 1.079	1,230	29.2 / 1.150	1,520	33.7 / 1.327	1,850
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.5 / 1.122	1,400	30.3 / 1.193	1,710	34.8 / 1.370	2,050
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.6 / 1.165	1,580	31.4 / 1.236	1,900	35.9 / 1.413	2,250
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.8 / 1.252	1,800	33.6 / 1.323	2,130	38.1 / 1.500	2,510
18	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.2 / 1.307	1,990	35.0 / 1.378	2,340	39.5 / 1.555	2,730
20	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.0 / 1.339	2,160	35.8 / 1.409	2,520	40.3 / 1.587	2,920
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.6 / 1.480	2,580	39.4 / 1.551	2,970	45.4 / 1.787	3,570

* lbs/1,000ft(approx.)=kg/km × 0.67

Flame Retardant Cable

Class B stranding

· 600V TP(I/S-OS)PN, TP(I/S-OS)PNA, TP(I/S-OS)PNB, TP(I/S-OS)PNBS
· 600V TP(I/S-OS)LSEL, TP(I/S-OS)LSELA, TP(I/S-OS)LSELB, TP(I/S-OS)LSELBS
· 600V TP(I/S-OS)PM, TP(I/S-OS)PMA, TP(I/S-OS)PMB, TP(I/S-OS)PMBS (AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.14 / 0.045	1.52 / 0.060	13.0 / 0.512	210	14.8 / 0.583	350	18.2 / 0.717	490
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.6 / 0.575	290	16.4 / 0.646	450	19.8 / 0.780	590
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.5 / 0.610	340	17.3 / 0.681	510	20.7 / 0.815	660
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	510	20.3 / 0.799	710	24.8 / 0.976	950
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.7 / 0.776	570	21.5 / 0.846	780	26.0 / 1.024	1,040
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.2 / 0.913	760	25.0 / 0.984	1,010	29.5 / 1.161	1,300
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	860	25.9 / 1.020	1,120	30.4 / 1.197	1,420
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	960	27.0 / 1.063	1,230	31.5 / 1.240	1,540
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.0 / 1.063	1,080	28.8 / 1.134	1,370	33.3 / 1.311	1,700
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.2 / 1.110	1,230	30.0 / 1.181	1,530	34.5 / 1.358	1,870
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,530	33.7 / 1.327	1,870	38.2 / 1.504	2,250
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	14.7 / 0.579	290	16.5 / 0.650	450	19.9 / 0.783	590
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.7 / 0.618	360	17.5 / 0.689	530	20.9 / 0.823	680
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.7 / 0.657	430	18.5 / 0.728	610	23.0 / 0.906	830
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	650	21.8 / 0.858	870	26.3 / 1.035	1,120
8	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.5 / 0.886	790	24.3 / 0.957	1,030	28.8 / 1.134	1,320
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	970	27.1 / 1.067	1,240	31.6 / 1.244	1,550
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.3 / 1.035	1,100	28.1 / 1.106	1,380	32.6 / 1.283	1,700
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	1,230	29.1 / 1.146	1,520	33.6 / 1.323	1,860
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.3 / 1.154	1,400	31.1 / 1.224	1,710	35.6 / 1.402	2,060
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,600	32.5 / 1.280	1,920	37.0 / 1.457	2,290
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	1,980	36.4 / 1.433	2,350	40.9 / 1.610	2,760
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	360	17.8 / 0.701	540	22.3 / 0.878	750
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.1 / 0.673	460	18.9 / 0.744	640	23.4 / 0.921	870
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.2 / 0.717	560	20.0 / 0.787	750	24.5 / 0.965	990
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	920	24.8 / 0.976	1,170	29.3 / 1.154	1,460
8	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.5 / 0.965	1,040	26.3 / 1.035	1,300	30.8 / 1.213	1,600
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.7 / 1.091	1,270	29.5 / 1.161	1,570	34.0 / 1.339	1,910
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.8 / 1.134	1,460	30.6 / 1.205	1,760	35.1 / 1.382	2,110
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.9 / 1.177	1,640	31.7 / 1.248	1,950	36.2 / 1.425	2,320
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.1 / 1.264	1,860	33.9 / 1.335	2,200	38.4 / 1.512	2,580
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.6 / 1.323	2,130	35.4 / 1.394	2,490	39.9 / 1.571	2,890
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.1 / 1.500	2,660	39.9 / 1.571	3,070	45.9 / 1.807	3,680

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-TP(I/S-OS)PN, FS-TP(I/ S -OS)PNA, FS-TP(I/S-OS)PNB, FS-TP(I/S-OS)PNBS
· 600V FS-TP(I/S-OS)LSEL, FS-TP(I/S-OS)LSELA, FS-TP(I/S-OS)LSELB, FS-TP(I/S-OS)LSELBS
· 600V FS-TP(I/ S -OS)PM, FS-TP(I/ S-OS)PMA, FS-TP(I/S-OS)PMB, FS-TP(I/S-OS)PMBS (AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	280	17.6 / 0.693	450	21.0 / 0.827	610
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	350	18.7 / 0.736	530	23.2 / 0.913	760
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	420	19.8 / 0.780	610	24.3 / 0.957	850
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	510	22.0 / 0.866	730	26.5 / 1.043	980
6	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	640	24.5 / 0.965	890	29.0 / 1.142	1,170
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	690	24.5 / 0.965	930	29.0 / 1.142	1,220
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	770	26.0 / 1.024	1,030	30.5 / 1.201	1,330
10	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	950	29.1 / 1.146	1,240	33.6 / 1.323	1,570
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,070	30.2 / 1.189	1,370	34.7 / 1.366	1,720
14	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,200	31.3 / 1.232	1,510	35.8 / 1.409	1,870
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.7 / 1.248	1,360	33.5 / 1.319	1,690	38.0 / 1.496	2,070
18	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.2 / 1.307	1,500	35.0 / 1.378	1,850	39.5 / 1.555	2,250
20	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.9 / 1.335	1,610	35.7 / 1.406	1,970	40.2 / 1.583	2,380
24	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.5 / 1.476	1,920	39.3 / 1.547	2,320	45.3 / 1.783	2,920
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	320	18.2 / 0.717	500	22.7 / 0.894	710
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.5 / 0.689	400	19.3 / 0.760	590	23.8 / 0.937	820
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	480	20.5 / 0.807	680	25.0 / 0.984	920
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	21.0 / 0.827	580	22.8 / 0.898	810	27.3 / 1.075	1,080
6	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	730	25.4 / 1.000	990	29.9 / 1.177	1,280
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	790	25.4 / 1.000	1,040	29.9 / 1.177	1,340
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.3 / 0.996	890	27.1 / 1.067	1,160	31.6 / 1.244	1,470
10	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,090	30.2 / 1.189	1,390	34.7 / 1.366	1,740
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.5 / 1.161	1,240	31.3 / 1.232	1,550	35.8 / 1.409	1,910
14	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.7 / 1.209	1,390	32.5 / 1.280	1,710	37.0 / 1.457	2,080
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	1,570	34.7 / 1.366	1,920	39.2 / 1.543	2,310
18	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.5 / 1.358	1,740	36.3 / 1.429	2,100	40.8 / 1.606	2,510
20	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.2 / 1.386	1,880	37.0 / 1.457	2,250	41.5 / 1.634	2,670
24	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.1 / 1.539	2,240	40.9 / 1.610	2,660	46.9 / 1.846	3,280
2	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	390	19.4 / 0.764	580	23.9 / 0.941	820
3	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.9 / 0.744	500	20.7 / 0.815	700	25.2 / 0.992	950
4	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	610	21.9 / 0.862	820	26.4 / 1.039	1,080
5	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	800	25.5 / 1.004	1,050	30.0 / 1.181	1,350
6	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	930	27.4 / 1.079	1,200	31.9 / 1.256	1,520
7	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	1,010	27.4 / 1.079	1,280	31.9 / 1.256	1,600
8	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	1,140	29.1 / 1.146	1,430	33.6 / 1.323	1,760
10	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.6 / 1.205	1,390	32.4 / 1.276	1,720	36.9 / 1.453	2,090
12	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,590	33.7 / 1.327	1,930	38.2 / 1.504	2,310
14	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	1,790	34.9 / 1.374	2,140	39.4 / 1.551	2,540
16	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.6 / 1.402	2,040	37.4 / 1.472	2,410	41.9 / 1.650	2,830
18	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.3 / 1.469	2,260	39.1 / 1.539	2,650	45.1 / 1.776	3,250
20	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.1 / 1.500	2,440	39.9 / 1.571	2,850	45.9 / 1.807	3,450
24	14	19 / 0.373	1.88 / 0.074	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	42.3 / 1.665	2,920	44.1 / 1.736	3,370	50.1 / 1.972	4,040

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Class B stranding

· 600V FS-TP(OS)PN, FS-TP(OS)PNA, FS-TP(OS)PNB, FS-TP(OS)PNBS
· 600V FS-TP(OS)LSEL, FS-TP(OS)LSELA, FS-TP(OS)LSELB , FS-TP(OS)LSELBS
· 600V FS-TP(OS)PM, FS-TP(OS)PMA, FS-TP(OS)PMB, FS-TP(OS)PMBS

(AL/PS TAPE SHIELD)

No. of Pairs	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	280	17.6 / 0.693	460	21.0 / 0.827	610
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	350	18.7 / 0.736	530	23.2 / 0.913	750
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	410	19.8 / 0.780	600	24.3 / 0.957	840
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.7 / 0.894	680	24.5 / 0.965	920	29.0 / 1.142	1,200
8	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.1 / 0.949	760	25.9 / 1.020	1,010	30.4 / 1.197	1,310
10	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.3 / 1.075	930	29.1 / 1.146	1,220	33.6 / 1.323	1,550
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.3 / 1.114	1,040	30.1 / 1.185	1,340	34.6 / 1.362	1,690
14	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.4 / 1.157	1,160	31.2 / 1.228	1,470	35.7 / 1.406	1,830
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,310	33.4 / 1.315	1,840	39.4 / 1.551	2,230
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.1 / 1.303	1,490	34.9 / 1.374	1,840	39.4 / 1.551	2,230
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	1,850	39.2 / 1.543	2,250	45.2 / 1.780	2,840
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.8 / 0.661	340	18.6 / 0.732	520	23.1 / 0.909	740
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	420	19.8 / 0.780	610	24.3 / 0.957	850
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.2 / 0.756	500	21.0 / 0.827	710	25.5 / 1.004	960
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	830	26.0 / 1.024	1,090	30.5 / 1.201	1,390
8	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	930	27.8 / 1.094	1,210	32.3 / 1.272	1,530
10	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.2 / 1.150	1,140	31.0 / 1.220	1,450	35.5 / 1.398	1,800
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.4 / 1.197	1,290	32.2 / 1.268	1,610	36.7 / 1.445	1,980
14	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.5 / 1.240	1,440	33.3 / 1.311	1,780	37.8 / 1.488	2,150
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.9 / 1.335	1,640	35.7 / 1.406	2,000	40.2 / 1.583	2,400
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.5 / 1.398	1,860	37.3 / 1.469	2,240	41.8 / 1.646	2,660
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.2 / 1.583	2,330	42.0 / 1.654	2,750	48.0 / 1.890	3,390
2	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.1 / 0.713	420	19.9 / 0.783	610	24.4 / 0.961	850
3	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.4 / 0.764	520	21.2 / 0.835	730	25.7 / 1.012	980
4	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.7 / 0.815	630	22.5 / 0.886	860	27.0 / 1.063	1,120
7	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.3 / 1.035	1,050	28.1 / 1.106	1,330	32.6 / 1.283	1,650
8	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,180	29.9 / 1.177	1,480	34.4 / 1.354	1,820
10	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.5 / 1.240	1,450	33.3 / 1.311	1,780	37.8 / 1.488	2,160
12	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.8 / 1.291	1,650	34.6 / 1.362	2,000	39.1 / 1.539	2,390
14	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	1,860	35.9 / 1.413	2,220	40.4 / 1.591	2,620
16	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.7 / 1.445	2,110	38.5 / 1.516	2,500	44.5 / 1.752	3,090
19	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.5 / 1.516	2,420	40.3 / 1.587	2,820	46.3 / 1.823	3,440
24	14	7 / 0.615	1.84 / 0.073	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	45.1 / 1.776	3,190	46.9 / 1.846	3,660	52.9 / 2.083	4,370

* lbs/1,000ft(approx.)=kg/km × 0.67

600V Signal Cable(with Individual & Overall Shield) - Triad Twisted
Flame Retardant Cable

Flexible rope stranding

· 600V TT(I/S-OS)PN, TT(I/S-OS)PNA, TT(I/S-OS)PNB, TT(I/S-OS)PNBS
· 600V TT(I/S-OS)LSEL, TT(I/S-OS)LSELA, TT(I/S-OS)LSELB, TT(I/S-OS)LSELBS
· 600V TT(I/S-OS)PM, TT(I/S-OS)PMA, TT(I/S-OS)PMB, TT(I/S-OS)PMBS

(AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.4 / 0.606	290	17.2 / 0.677	460	20.6 / 0.811	610
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.3 / 0.642	360	18.1 / 0.713	540	22.6 / 0.890	750
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.9 / 0.705	440	19.7 / 0.776	640	24.2 / 0.953	870
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	540	21.6 / 0.850	750	26.1 / 1.028	1,000
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.4 / 0.921	760	25.2 / 0.992	1,010	29.7 / 1.169	1,300
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.1 / 0.988	850	26.9 / 1.059	1,120	31.4 / 1.236	1,430
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.8 / 1.173	1,200	31.6 / 1.244	1,520	36.1 / 1.421	1,880
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	33.0 / 1.299	1,520	34.8 / 1.370	1,870	39.3 / 1.547	2,260
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.0 / 0.630	330	17.8 / 0.701	510	22.3 / 0.878	720
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.0 / 0.669	420	18.8 / 0.740	600	23.3 / 0.917	830
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	520	20.5 / 0.807	720	25.0 / 0.984	960
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.7 / 0.815	630	22.5 / 0.886	850	27.0 / 1.063	1,110
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	880	26.2 / 1.031	1,150	30.7 / 1.209	1,450
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.2 / 1.031	1,000	28.0 / 1.102	1,280	32.5 / 1.280	1,600
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.2 / 1.228	1,420	33.0 / 1.299	1,750	37.5 / 1.476	2,120
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.5 / 1.358	1,790	36.3 / 1.429	2,160	40.8 / 1.606	2,570

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V TT(I/S-OS)PN, TT(I/S-OS)PNA, TT(I/S-OS)PNB, TT(I/S-OS)PNBS
· 600V TT(I/S-OS)LSEL, TT(I/S-OS)LSELA, TT(I/S-OS)LSELB, TT(I/S-OS)LSELBS
· 600V TT(I/S-OS)PM, TT(I/S-OS)PMA, TT(I/S-OS)PMB, TT(I/S-OS)PMBS

(AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	1.52 / 0.060	15.2 / 0.598	300	17.0 / 0.669	460	20.4 / 0.803	610
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.1 / 0.634	370	17.9 / 0.705	550	22.4 / 0.882	760
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	430	19.4 / 0.764	620	23.9 / 0.941	850
5	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.3 / 0.760	510	21.1 / 0.831	720	25.6 / 1.008	970
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	21.0 / 0.827	660	22.8 / 0.898	880	27.3 / 1.075	1,150
9	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.9 / 1.020	900	27.7 / 1.091	1,180	32.2 / 1.268	1,500
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,150	30.9 / 1.217	1,460	35.4 / 1.394	1,810
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.3 / 1.272	1,450	34.1 / 1.343	1,790	38.6 / 1.520	2,180
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.1 / 1.343	1,670	35.9 / 1.413	2,030	40.4 / 1.591	2,440
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.0 / 1.575	2,100	41.8 / 1.646	2,530	47.8 / 1.882	3,160
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	16.4 / 0.646	370	18.2 / 0.717	550	22.7 / 0.894	760
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	470	19.2 / 0.756	650	23.7 / 0.933	880
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.1 / 0.752	540	20.9 / 0.823	750	25.4 / 1.000	990
5	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.9 / 0.823	650	22.7 / 0.894	870	27.2 / 1.071	1,140
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	910	25.8 / 1.016	1,160	30.3 / 1.193	1,460
9	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,150	29.9 / 1.177	1,450	34.4 / 1.354	1,790
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	1,470	33.4 / 1.315	1,800	41.5 / 1.634	2,660
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.3 / 1.386	1,870	37.0 / 1.457	2,240	41.5 / 1.634	2,660
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.1 / 1.461	2,160	38.9 / 1.531	2,550	44.9 / 1.768	3,150
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	45.1 / 1.776	2,890	46.9 / 1.846	3,360	52.9 / 2.083	4,070

* lbs/1,000ft(approx.)=kg/km × 0.67

Fire Resistant Cable

Flexible rope stranding

· 600V FS-TT(I/S-OS)PN, FS-TT(I/S-OS)PNA, FS-TT(I/S-OS)PNB, FS-TT(I/S-OS)PNBS
· 600V FS-TT(I/S-OS)LSEL, FS-TT(I/S-OS)LSELA, FS-TT(I/S-OS)LSELB, FS-TT(I/S-OS)LSELBS
· 600V FS-TT(I/S-OS)PM, FS-TT(I/S-OS)PMA , FS-TT(I/S-OS)PMB, FS-TT(I/S-OS)PMBS (AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.4 / 0.685	340	19.2 / 0.756	530	23.7 / 0.933	760
3	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	430	20.3 / 0.799	630	24.8 / 0.976	870
4	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.3 / 0.799	530	22.1 / 0.870	750	26.6 / 1.047	1,010
5	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.6 / 0.929	700	25.4 / 1.000	950	29.9 / 1.177	1,250
7	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.7 / 1.051	900	28.5 / 1.122	1,190	33.0 / 1.299	1,520
8	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	28.5 / 1.122	1,020	30.3 / 1.193	1,320	34.8 / 1.370	1,670
12	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.0 / 1.339	1,440	35.8 / 1.409	1,800	40.3 / 1.587	2,210
16	18	19 / 0.254	1.24 / 0.049	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	37.6 / 1.480	1,820	39.4 / 1.551	2,210	45.4 / 1.787	2,810
2	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.0 / 0.709	390	19.8 / 0.780	580	24.3 / 0.957	820
3	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	19.2 / 0.756	490	21.0 / 0.827	700	25.5 / 1.004	940
4	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	22.2 / 0.874	660	24.0 / 0.945	900	28.5 / 1.122	1,180
5	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	24.5 / 0.965	800	26.3 / 1.035	1,060	30.8 / 1.213	1,360
7	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.7 / 1.091	1,040	29.5 / 1.161	1,330	34.0 / 1.339	1,670
8	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	29.6 / 1.165	1,170	31.4 / 1.236	1,480	35.9 / 1.413	1,840
12	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	35.4 / 1.394	1,670	37.2 / 1.465	2,040	41.7 / 1.642	2,460
16	16	19 / 0.297	1.50 / 0.059	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	39.2 / 1.543	2,110	41.0 / 1.614	2,520	47.0 / 1.850	3,150

* lbs/1,000ft(approx.)=kg/km × 0.67

Class B stranding

· 600V FS-TT(I/S-OS)PN, FS-TT(I/S-OS)PNA, FS-TT(I/S-OS)PNB, FS-TT(I/S-OS)PNBS
· 600V FS-TT(I/S-OS)LSEL, FS-TT(I/S-OS)LSELA, FS-TT(I/S-OS)LSELB, FS-TT(I/S-OS)LSELBS
· 600V FS-TT(I/S-OS)PM, FS-TT(I/S-OS)PMA ,FS-TT(I/S-OS)PMB, FS-TT(I/S-OS)PMBS (AL/PS TAPE SHIELD)

No. of Triads	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
2	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	17.6 / 0.693	360	19.4 / 0.764	550	23.9 / 0.941	780
3	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.7 / 0.736	450	20.5 / 0.807	650	25.0 / 0.984	890
4	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.5 / 0.807	510	22.3 / 0.878	730	26.8 / 1.055	990
5	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.7 / 0.933	680	25.5 / 1.004	930	30.0 / 1.181	1,230
7	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	26.0 / 1.024	860	27.8 / 1.094	1,140	32.3 / 1.272	1,460
9	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	30.3 / 1.193	1,090	32.1 / 1.264	1,410	36.6 / 1.441	1,770
12	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	34.2 / 1.346	1,380	36.0 / 1.417	1,740	40.5 / 1.594	2,150
16	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	38.0 / 1.496	1,750	39.8 / 1.567	2,150	45.8 / 1.803	2,750
19	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.2 / 1.583	2,010	42.0 / 1.654	2,430	48.0 / 1.890	3,070
24	18	7 / 0.386	1.16 / 0.046	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	48.8 / 1.921	2,720	50.6 / 1.992	3,230	56.6 / 2.228	3,990
2	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	18.8 / 0.740	440	20.6 / 0.811	640	25.1 / 0.988	880
3	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	1.52 / 0.060	2.03 / 0.080	20.0 / 0.787	550	21.8 / 0.858	760	26.3 / 1.035	1,020
4	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	23.1 / 0.909	690	24.9 / 0.980	940	29.4 / 1.157	1,220
5	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	25.5 / 1.004	820	27.3 / 1.075	1,100	31.8 / 1.252	1,410
7	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	27.8 / 1.094	1,060	29.6 / 1.165	1,350	34.1 / 1.343	1,690
9	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.03 / 0.080	32.5 / 1.280	1,340	34.3 / 1.350	1,680	38.8 / 1.528	2,070
12	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	36.7 / 1.445	1,710	38.5 / 1.516	2,090	44.5 / 1.752	2,680
16	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.03 / 0.080	2.79 / 0.110	40.9 / 1.610	2,180	42.7 / 1.681	2,610	48.7 / 1.917	3,260
19	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	44.7 / 1.760	2,680	46.5 / 1.831	3,150	52.5 / 2.067	3,850
24	16	7 / 0.488	1.46 / 0.058	0.76 / 0.030	2.79 / 0.110	2.79 / 0.110	52.4 / 2.063	3,370	54.2 / 2.134	3,920	60.2 / 2.370	4,730

* lbs/1,000ft(approx.)=kg/km × 0.67

ENERFLEX®

High Voltage (5kV, 8kV, 15kV) Power Cable

High Voltage Power Cable

- 5kV Power Cable(Shielded 100% or 133% Insulation Level)
- 8kV Power Cable(Shielded 100% or 133% Insulation Level)
- 15kV Power Cable(Shielded 100% or 133% Insulation Level)

JS Cable

High Voltage
(5kV, 8kV, 15kV) Power Cable

Cable Designation
5kV - SEN(BS), SEL(BS), TEN(BS), TEL(BS)
8kV - SEN(BS), SEL(BS), TEN(BS), TEL(BS)
15kV - SEN(BS), SEL(BS), TEN(BS), TEL(BS)

Application Standard
- IEEE 1580(2001), IEEE 45(1998)
- ICEA S-68-516
- UL 1072(2001)
- UL 1309/CSA C22.2 No. 245(1995)
- IEEE 1202(1991)
- IEC 60332-3 Category A
- CSA C 22.2 No.38 (at -40°C)

Application
- This cable is designed for power circuits up to 5kV, 8kV, 15kV
- Suitable for use in commercial marine applications, MODU's and platform.
- Advantage of JS cable
  - Flame retardant properties
  - Resistance to oil, abrasion, petrochemical fluid, moisture and sunlight.
  - Excellent flexibility

Construction
- **Conductor** : Soft annealed tinned copper to ASTM B33 flexible rope stranding.
- **Conductor Screen** : Semi-conducting compound
- **Insulation** : EP rubber(Type E) according to IEEE1580-2001 & IEEE45-1998
- **Insulation Screen** :
  Non-metallic part - Semi-conducting compound
  Metallic part - Braid of tinned annealed copper wire
- **Jacket**
  - Flame retardant compound(Type N or L or T) according to IEEE1580-2001, IEEE45-1998 & UL 1309-1995
- **Armor(Optional)** : Bronze, Aluminum or Tinned copper
- **Sheath(Optional)** : The same as Jacket

5kV Power Cable (Shield 100% or 133% Insulation Level)

100% Insulation Level

Flexible rope stranding 5kV SEN(BS), SEL(BS) / 5kV TEN(BS), TEL(BS)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	8	37 / 0.511	3.45	2.29 / 0.090	1.52 / 0.060	1.52 / 0.060	15.8 / 0.622	390	17.6 / 0.693	570	21.0 / 0.827	720
	6	61 / 0.511	4.45	2.29 / 0.090	1.52 / 0.060	2.03 / 0.080	16.9 / 0.665	470	18.7 / 0.736	660	23.2 / 0.913	880
	5	91 / 0.511	6.20	2.29 / 0.090	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	580	20.3 / 0.799	780	24.8 / 0.976	1,020
	4	105 / 0.511	6.55	2.29 / 0.090	1.52 / 0.060	2.03 / 0.080	19.0 / 0.748	620	20.8 / 0.819	830	25.3 / 0.996	1,070
	2	150 / 0.511	8.23	2.29 / 0.090	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	750	22.0 / 0.866	960	26.5 / 1.043	1,220
	1	209 / 0.511	9.17	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	22.8 / 0.898	960	24.6 / 0.969	1,210	29.1 / 1.146	1,490
	1/0	266 / 0.511	10.34	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,110	25.8 / 1.016	1,370	30.3 / 1.193	1,670
	2/0	342 / 0.511	11.71	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	1,300	27.0 / 1.063	1,570	31.5 / 1.240	1,880
	3/0	418 / 0.511	12.95	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	26.7 / 1.051	1,500	28.5 / 1.122	1,780	33.0 / 1.299	2,110
	4/0	532 / 0.511	14.61	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,770	30.2 / 1.189	2,070	34.7 / 1.366	2,420
	262	646 / 0.511	16.61	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	30.0 / 1.181	2,040	31.8 / 1.252	2,360	36.3 / 1.429	2,720
	313	777 / 0.511	18.29	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	31.7 / 1.248	2,350	33.5 / 1.319	2,680	38.0 / 1.496	3,060
	373	925 / 0.511	19.94	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	33.4 / 1.315	2,690	35.2 / 1.386	3,040	39.7 / 1.563	3,440
	444	1,110 / 0.511	21.84	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	35.3 / 1.390	3,100	37.1 / 1.461	3,480	41.6 / 1.638	3,900
	535	1,332 / 0.511	23.90	2.29 / 0.090	2.03 / 0.080	2.79 / 0.110	37.4 / 1.472	3,600	39.2 / 1.543	3,990	45.2 / 1.780	4,590
	646	1,591 / 0.511	26.14	2.29 / 0.090	2.03 / 0.080	2.79 / 0.110	39.6 / 1.559	4,160	41.4 / 1.630	4,580	47.4 / 1.866	5,210
	771	924 / 0.511	28.75	2.29 / 0.090	2.03 / 0.080	2.79 / 0.110	41.8 / 1.646	4,870	43.6 / 1.717	5,310	49.6 / 1.953	5,970
	1111	745 / 0.511	34.39	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	48.5 / 1.909	6,770	50.3 / 1.980	7,280	56.3 / 2.217	8,040
3	8	37 / 0.511	3.45	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,450	33.2 / 1.307	1,780	37.7 / 1.484	2,160
	6	61 / 0.511	4.45	2.29 / 0.090	2.03 / 0.080	2.03 / 0.080	33.8 / 1.331	1,740	35.6 / 1.402	2,100	40.1 / 1.579	2,500
	5	91 / 0.511	6.20	2.29 / 0.090	2.03 / 0.080	2.79 / 0.110	37.2 / 1.465	2,150	39.0 / 1.535	2,540	45.0 / 1.772	3,140
	4	105 / 0.511	6.55	2.29 / 0.090	2.03 / 0.080	2.79 / 0.110	38.3 / 1.508	2,310	40.1 / 1.579	2,710	46.1 / 1.815	3,330
	2	150 / 0.511	8.23	2.29 / 0.090	2.03 / 0.080	2.79 / 0.110	40.9 / 1.610	2,760	42.7 / 1.681	3,190	48.7 / 1.917	3,840
	1	209 / 0.511	9.17	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	45.6 / 1.795	3,490	47.4 / 1.866	3,970	53.4 / 2.102	4,690
	1/0	266 / 0.511	10.34	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	48.2 / 1.898	4,030	50.0 / 1.969	4,540	56.0 / 2.205	5,290
	2/0	342 / 0.511	11.71	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	50.8 / 2.000	4,680	52.6 / 2.071	5,210	58.6 / 2.307	6,000
	3/0	418 / 0.511	12.95	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	54.0 / 2.126	5,390	55.8 / 2.197	5,960	61.8 / 2.433	6,790
	4/0	532 / 0.511	14.61	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	57.7 / 2.272	6,370	59.5 / 2.343	6,980	65.5 / 2.579	7,860
	262	646 / 0.511	16.61	2.29 / 0.090	2.79 / 0.110	2.79 / 0.110	61.2 / 2.409	7,340	63.0 / 2.480	7,980	69.0 / 2.717	8,920
	313	777 / 0.511	18.29	2.29 / 0.090	2.79 / 0.110	3.56 / 0.140	64.8 / 2.551	8,430	66.6 / 2.622	9,100	74.1 / 2.917	10,350
	373	925 / 0.511	19.94	2.29 / 0.090	2.79 / 0.110	3.56 / 0.140	68.5 / 2.697	9,630	70.3 / 2.768	10,350	77.8 / 3.063	11,670
	444	1,110 / 0.511	21.84	2.29 / 0.090	3.56 / 0.140	3.56 / 0.140	74.1 / 2.917	11,360	75.9 / 2.988	12,140	83.4 / 3.283	13,550
	535	1,332 / 0.511	23.90	2.29 / 0.090	3.56 / 0.140	3.56 / 0.140	78.6 / 3.094	13,110	80.4 / 3.165	13,930	87.9 / 3.461	15,430
	646	1,591 / 0.511	26.14	2.29 / 0.090	3.56 / 0.140	3.56 / 0.140	83.3 / 3.280	15,110	85.1 / 3.350	15,980	92.6 / 3.646	17,560
	777	1,924 / 0.511	28.75	2.29 / 0.090	3.56 / 0.140	3.56 / 0.140	88.1 / 3.469	17,570	89.9 / 3.539	18,490	97.4 / 3.835	20,150
	1,111	2,745 / 0.511	34.39	2.29 / 0.090	3.56 / 0.140	3.56 / 0.140	99.3 / 3.909	23,610	101.1 / 3.980	24,650	108.6 / 4.276	26,510

* lbs/1,000ft(approx.)=kg/km × 0.67

133% Insulation Level

Flexible rope stranding 5kV SEN(BS), SEL(BS) / 5kV TEN(BS), TEL(BS)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area	Strand	Dia. (Nominal)				Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.	Dia. Approx.	Weight Approx.
No.	AWG or MCM	No./AWG	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch	kg/km *	mm/inch	kg/km *	mm/inch	kg/km *
1	8	37 / 0.511	3.45	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	17.1 / 0.673	440	18.9 / 0.744	630	23.4 / 0.921	850
	6	61 / 0.511	4.45	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	18.1 / 0.713	530	19.9 / 0.783	720	24.4 / 0.961	960
	5	91 / 0.511	6.20	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	19.7 / 0.776	640	21.5 / 0.846	850	26.0 / 1.024	1,100
	4	105 / 0.511	6.55	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	20.2 / 0.795	680	22.0 / 0.866	900	26.5 / 1.043	1,160
	2	150 / 0.511	8.23	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	22.5 / 0.886	870	24.3 / 0.957	1,110	28.8 / 1.134	1,390
	1	209 / 0.511	9.17	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	24.0 / 0.945	1,030	25.8 / 1.016	1,290	30.3 / 1.193	1,590
	1/0	266 / 0.511	10.34	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	25.2 / 0.992	1,190	27.0 / 1.063	1,450	31.5 / 1.240	1,770
	2/0	342 / 0.511	11.71	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	26.4 / 1.039	1,370	28.2 / 1.110	1,660	32.7 / 1.287	1,980
	3/0	418 / 0.511	12.95	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	28.0 / 1.102	1,580	29.8 / 1.173	1,870	34.3 / 1.350	2,220
	4/0	532 / 0.511	14.61	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,860	31.5 / 1.240	2,170	36.0 / 1.417	2,530
	262	646 / 0.511	16.61	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	31.2 / 1.228	2,130	33.0 / 1.299	2,460	37.5 / 1.476	2,830
	313	777 / 0.511	18.29	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	2,440	34.7 / 1.366	2,790	39.2 / 1.543	3,180
	373	925 / 0.511	19.94	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	2,780	36.4 / 1.433	3,150	40.9 / 1.610	3,560
	444	1110 / 0.511	21.84	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	36.5 / 1.437	3,200	38.3 / 1.508	3,590	44.3 / 1.744	4,180
	535	1332 / 0.511	23.90	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	38.6 / 1.520	3,700	40.4 / 1.591	4,110	46.4 / 1.827	4,720
	646	1591 / 0.511	26.14	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	40.8 / 1.606	4,270	42.6 / 1.677	4,700	48.6 / 1.913	5,350
	777	1924 / 0.511	28.75	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	44.5 / 1.752	5,140	46.3 / 1.823	5,610	52.3 / 2.059	6,310
	1,111	2745 / 0.511	34.39	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	49.7 / 1.957	6,910	51.5 / 2.028	7,430	57.5 / 2.264	8,200
3	8	37 / 0.511	3.45	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	34.2 / 1.346	1,670	36.0 / 1.417	2,030	40.5 / 1.594	2,440
	6	61 / 0.511	4.45	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	36.4 / 1.433	1,970	38.2 / 1.504	2,350	44.2 / 1.740	2,940
	5	91 / 0.511	6.20	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	39.8 / 1.567	2,390	41.6 / 1.638	2,810	47.6 / 1.874	3,450
	4	105 / 0.511	6.55	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	40.9 / 1.610	2,560	42.7 / 1.681	2,990	48.7 / 1.917	3,640
	2	150 / 0.511	8.23	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	45.0 / 1.772	3,180	46.8 / 1.843	3,650	52.8 / 2.079	4,360
	1	209 / 0.511	9.17	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	48.2 / 1.898	3,790	50.0 / 1.969	4,290	56.0 / 2.205	5,050
	1/0	266 / 0.511	10.34	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	50.8 / 2.000	4,340	52.6 / 2.071	4,870	58.6 / 2.307	5,660
	2/0	342 / 0.511	11.71	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	53.4 / 2.102	5,000	55.2 / 2.173	5,560	61.2 / 2.409	6,390
	3/0	418 / 0.511	12.95	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	56.8 / 2.236	5,740	58.6 / 2.307	6,340	64.6 / 2.543	7,210
	4/0	532 / 0.511	14.61	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	60.5 / 2.382	6,750	62.3 / 2.453	7,380	68.3 / 2.689	8,310
	262	646 / 0.511	16.61	2.92 / 0.115	2.79 / 0.110	3.56 / 0.140	63.7 / 2.508	7,710	65.5 / 2.579	8,380	73.0 / 2.874	9,610
	313	777 / 0.511	18.29	2.92 / 0.115	2.79 / 0.110	3.56 / 0.140	67.4 / 2.654	8,830	69.2 / 2.724	9,540	76.7 / 3.020	10,830
	373	925 / 0.511	19.94	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	72.6 / 2.858	10,310	74.4 / 2.929	11,,070	81.9 / 3.224	12,460
	444	1110 / 0.511	21.84	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	76.7 / 3.020	11,820	78.5 / 3.091	12,620	86.0 / 3.386	14,080
	535	1332 / 0.511	23.90	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	81.2 / 3.197	13,600	83.0 / 3.268	14,440	90.5 / 3.563	15,980
	646	1591 / 0.511	26.14	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	85.9 / 3.382	15,620	87.7 / 3.453	16,520	95.2 / 3.748	18,140
	777	1924 / 0.511	28.75	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	90.7 / 3.571	18,110	92.5 / 3.642	19,050	100.0 / 3.937	20,760
	1,111	2745 / 0.511	34.39	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	101.9 / 4.012	24,220	103.7 / 4.083	25,280	111.2 / 4.378	27,180

* lbs/1,000ft(approx.)=kg/km × 0.67

8kV Power Cable (Shield 100% or 133% Insulation Level)

100% Insulation Level

Flexible rope stranding 8kV SEN(BS), SEL(BS) / 8kV TEN(BS), TEL(BS)

No. of Cores No.	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area AWG or MCM	Strand No./AWG	Dia. (Nominal) mm/inch	mm/inch	mm/inch	mm/inch	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *
1	6	61 / 0.511	4.45	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	18.5 / 0.728	540	20.3 / 0.799	740	25.1 / 0.988	990
	5	91 / 0.511	6.20	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	20.1 / 0.791	650	21.9 / 0.862	860	26.7 / 1.051	1,140
	4	105 / 0.511	6.55	2.92 / 0.115	1.52 / 0.060	2.03 / 0.080	20.6 / 0.811	690	22.4 / 0.882	910	27.2 / 1.071	1,200
	2	150 / 0.511	8.23	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	22.9 / 0.902	880	24.7 / 0.972	1,120	29.5 / 1.161	1,430
	1	209 / 0.511	9.17	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	24.4 / 0.961	1,050	26.2 / 1.031	1,310	31.1 / 1.224	1,640
	1/0	266 / 0.511	10.34	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	25.6 / 1.008	1,200	27.4 / 1.079	1,470	32.3 / 1.272	1,820
	2/0	342 / 0.511	11.71	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	26.8 / 1.055	1,390	28.6 / 1.126	1,670	33.5 / 1.319	2,030
	3/0	418 / 0.511	12.95	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	28.4 / 1.118	1,590	30.2 / 1.189	1,890	35.2 / 1.386	2,280
	4/0	532 / 0.511	14.61	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	30.1 / 1.185	1,870	31.9 / 1.256	2,190	36.9 / 1.453	2,600
	262	646 / 0.511	16.61	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	31.6 / 1.244	2,140	33.4 / 1.315	2,480	38.4 / 1.512	2,900
	313	777 / 0.511	18.29	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	33.3 / 1.311	2,460	35.1 / 1.382	2,810	40.2 / 1.583	3,260
	373	925 / 0.511	19.94	2.92 / 0.115	2.03 / 0.080	2.03 / 0.080	35.0 / 1.378	2,800	36.8 / 1.449	3,170	41.9 / 1.650	3,640
	444	1,110 / 0.511	21.84	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	36.9 / 1.453	3,220	38.7 / 1.524	3,610	45.4 / 1.787	4,280
	535	1,332 / 0.511	23.90	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	39.0 / 1.535	3,720	40.8 / 1.606	4,130	47.5 / 1.870	4,830
	646	1,591 / 0.511	26.14	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	41.2 / 1.622	5,160	43.0 / 1.693	5,640	49.8 / 1.961	6,440
	777	1,924 / 0.511	28.75	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	44.9 / 1.768	5,160	46.7 / 1.839	5,640	53.5 / 2.106	6,440
	1,111	2,745 / 0.511	34.39	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	50.1 / 1.972	6,930	51.9 / 2.043	7,460	58.8 / 2.315	8,360
3	6	61 / 0.511	4.45	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	36.8 / 1.449	2000	38.6 / 1.520	2390	45.3 / 1.783	3060
	5	91 / 0.511	6.20	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	40.3 / 1.587	2440	42.1 / 1.657	2870	48.8 / 1.921	3590
	4	105 / 0.511	6.55	2.92 / 0.115	2.03 / 0.080	2.79 / 0.110	41.3 / 1.626	2600	43.1 / 1.697	3030	49.9 / 1.965	3780
	2	150 / 0.511	8.23	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	45.4 / 1.787	3220	47.2 / 1.858	3700	54.0 / 2.126	4510
	1	209 / 0.511	9.17	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	48.7 / 1.917	3840	50.5 / 1.988	4350	57.4 / 2.260	5240
	1/0	266 / 0.511	10.34	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	51.2 / 2.016	4390	53.0 / 2.087	4920	60.0 / 2.362	5860
	2/0	342 / 0.511	11.71	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	53.8 / 2.118	5050	55.6 / 2.189	5620	62.6 / 2.465	6600
	3/0	418 / 0.511	12.95	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	57.3 / 2.256	5810	59.1 / 2.327	6410	66.2 / 2.606	7460
	4/0	532 / 0.511	14.61	2.92 / 0.115	2.79 / 0.110	2.79 / 0.110	60.9 / 2.398	6800	62.7 / 2.469	7440	69.9 / 2.752	8570
	262	646 / 0.511	16.61	2.92 / 0.115	2.79 / 0.110	3.56 / 0.140	64.2 / 2.528	7780	66.0 / 2.598	8460	74.8 / 2.945	9920
	313	777 / 0.511	18.29	2.92 / 0.115	2.79 / 0.110	3.56 / 0.140	67.8 / 2.669	8890	69.6 / 2.740	9600	78.5 / 3.091	11160
	373	925 / 0.511	19.94	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	73.0 / 2.874	10380	74.8 / 2.945	11140	83.8 / 3.299	12830
	444	1110 / 0.511	21.84	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	77.1 / 3.035	11890	78.9 / 3.106	12700	87.9 / 3.461	14470
	535	1332 / 0.511	23.90	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	81.6 / 3.213	13670	83.4 / 3.283	14520	92.5 / 3.642	16420
	646	1591 / 0.511	26.14	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	86.4 / 3.402	18190	88.2 / 3.472	19140	97.4 / 3.835	21280
	777	1924 / 0.511	28.75	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	91.1 / 3.587	18190	92.9 / 3.657	19140	102.2 / 4.024	21280
	1,111	2745 / 0.511	34.39	2.92 / 0.115	3.56 / 0.140	3.56 / 0.140	102.3 / 4.028	24310	104.1 / 4.098	25370	113.6 / 4.472	27820

* lbs/1,000ft(approx.)=kg/km × 0.67

133% Insulation Level

Flexible rope stranding 8kV SEN(BS), SEL(BS) / 8kV TEN(BS), TEL(BS)

No. of Cores No.	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area AWG or MCM	Strand No./AWG	Dia. (Nominal) mm/inch	mm/inch	mm/inch	mm/inch	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *
1	6	61 / 0.511	4.45	3.56 / 0.140	1.52 / 0.060	2.03 / 0.080	19.8 / 0.780	590	21.6 / 0.850	810	26.4 / 1.039	1,080
	5	91 / 0.511	6.20	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	22.5 / 0.886	770	24.3 / 0.957	1,010	29.1 / 1.146	1,310
	4	105 / 0.511	6.55	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	23.0 / 0.906	810	24.8 / 0.976	1,060	29.6 / 1.165	1,370
	2	150 / 0.511	8.23	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	24.2 / 0.953	950	26.0 / 1.024	1,210	30.9 / 1.217	1,540
	1	209 / 0.511	9.17	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	25.7 / 1.012	1,120	27.5 / 1.083	1,390	32.4 / 1.276	1,740
	1/0	266 / 0.511	10.34	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	26.9 / 1.059	1,280	28.7 / 1.130	1,560	33.6 / 1.323	1,920
	2/0	342 / 0.511	11.71	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	28.1 / 1.106	1,470	29.9 / 1.177	1,770	34.8 / 1.370	2,140
	3/0	418 / 0.511	12.95	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,670	31.5 / 1.240	1,990	36.5 / 1.437	2,390
	4/0	532 / 0.511	14.61	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	31.4 / 1.236	1,960	33.2 / 1.307	2,290	38.2 / 1.504	2,710
	262	646 / 0.511	16.61	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	32.9 / 1.295	2,240	34.7 / 1.366	2,580	39.7 / 1.563	3,020
	313	777 / 0.511	18.29	3.56 / 0.140	2.03 / 0.080	2.03 / 0.080	34.6 / 1.362	2,550	36.4 / 1.433	2,920	41.5 / 1.634	3,390
	373	925 / 0.511	19.94	3.56 / 0.140	2.03 / 0.080	2.79 / 0.110	36.3 / 1.429	2,900	38.1 / 1.500	3,280	44.8 / 1.764	3,940
	444	1,110 / 0.511	21.84	3.56 / 0.140	2.03 / 0.080	2.79 / 0.110	38.2 / 1.504	3,330	40.0 / 1.575	3,730	46.7 / 1.839	4,420
	535	1,332 / 0.511	23.90	3.56 / 0.140	2.03 / 0.080	2.79 / 0.110	40.3 / 1.587	3,830	42.1 / 1.657	4,260	48.8 / 1.921	4,980
	646	1,591 / 0.511	26.14	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	44.0 / 1.732	5,290	45.8 / 1.803	5,780	52.6 / 2.071	6,620
	777	1,924 / 0.511	28.75	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	46.2 / 1.819	5,290	48.0 / 1.890	5,780	54.9 / 2.161	6,620
	1,111	2,745 / 0.511	34.39	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	51.4 / 2.024	7,070	53.2 / 2.094	7,610	60.2 / 2.370	8,550
3	6	61 / 0.511	4.45	3.56 / 0.140	2.03 / 0.080	2.79 / 0.110	39.6 / 1.559	2,250	41.4 / 1.630	2,670	48.1 / 1.894	3,380
	5	91 / 0.511	6.20	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	44.6 / 1.756	2,870	46.4 / 1.827	3,340	53.2 / 2.094	4,140
	4	105 / 0.511	6.55	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	45.6 / 1.795	3,040	47.4 / 1.866	3,510	54.3 / 2.138	4,350
	2	150 / 0.511	8.23	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	48.2 / 1.898	3,520	50.0 / 1.969	4,030	56.9 / 2.240	4,900
	1	209 / 0.511	9.17	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	51.5 / 2.028	4,170	53.3 / 2.098	4,710	60.3 / 2.374	5,650
	1/0	266 / 0.511	10.34	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	54.0 / 2.126	4,720	55.8 / 2.197	5,290	62.8 / 2.472	6,270
	2/0	342 / 0.511	11.71	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	56.6 / 2.228	5,410	58.4 / 2.299	6,000	65.5 / 2.579	7,040
	3/0	418 / 0.511	12.95	3.56 / 0.140	2.79 / 0.110	2.79 / 0.110	60.1 / 2.366	6,180	61.9 / 2.437	6,810	69.0 / 2.717	7,910
	4/0	532 / 0.511	14.61	3.56 / 0.140	2.79 / 0.110	3.56 / 0.140	63.7 / 2.508	7,200	65.5 / 2.579	7,860	74.3 / 2.925	9,320
	262	646 / 0.511	16.61	3.56 / 0.140	2.79 / 0.110	3.56 / 0.140	67.0 / 2.638	8,200	68.8 / 2.709	8,900	77.6 / 3.055	10,420
	313	777 / 0.511	18.29	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	72.1 / 2.839	9,580	73.9 / 2.909	10,330	82.8 / 3.260	11,990
	373	925 / 0.511	19.94	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	75.8 / 2.984	10,850	77.6 / 3.055	11,640	86.6 / 3.409	13,390
	444	1,110 / 0.511	21.84	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	79.9 / 3.146	12,380	81.7 / 3.217	13,220	90.8 / 3.575	15,070
	535	1,332 / 0.511	23.90	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	84.4 / 3.323	14,190	86.2 / 3.394	15,070	95.4 / 3.756	17,050
	646	1,591 / 0.511	26.14	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	89.2 / 3.512	18,760	91.0 / 3.583	19,740	100.3 / 3.949	21,970
	777	1,924 / 0.511	28.75	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	93.9 / 3.697	18,760	95.7 / 3.768	19,740	105.1 / 4.138	21,970
	1,111	2,745 / 0.511	34.39	3.56 / 0.140	3.56 / 0.140	3.56 / 0.140	105.1 / 4.138	24,950	106.9 / 4.209	26,040	116.5 / 4.587	28,580

* lbs/1,000ft(approx.)=kg/km × 0.67

15kV Power Cable (Shield 100% or 133% Insulation level)

100% Insulation Level

Flexible rope stranding 15kV SEN(BS), SEL(BS) / 15kV TEN(BS), TEL(BS)

No. of Cores No.	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area AWG or MCM	Strand No./AWG	Dia. (Nominal) mm/inch	mm/inch	mm/inch	mm/inch	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *
1	2	150 / 0.511	8.23	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	26.4 / 1.039	1,070	28.2 / 1.110	1,350	33.1 / 1.303	1,710
	1	209 / 0.511	9.17	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	27.9 / 1.098	1,250	29.7 / 1.169	1,550	34.6 / 1.362	1,920
	1/0	266 / 0.511	10.34	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	29.1 / 1.146	1,410	30.9 / 1.217	1,720	35.9 / 1.413	2,120
	2/0	342 / 0.511	11.71	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	30.3 / 1.193	1,610	32.1 / 1.264	1,930	37.1 / 1.461	2,340
	3/0	418 / 0.511	12.95	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	31.9 / 1.256	1,820	33.7 / 1.327	2,160	38.7 / 1.524	2,590
	4/0	532 / 0.511	14.61	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	33.6 / 1.323	2,120	35.4 / 1.394	2,470	40.5 / 1.594	2,930
	262	646 / 0.511	16.61	4.45 / 0.175	2.03 / 0.080	2.03 / 0.080	35.1 / 1.382	2,400	36.9 / 1.453	2,770	42.0 / 1.654	3,250
	313	777 / 0.511	18.29	4.45 / 0.175	2.03 / 0.080	2.79 / 0.110	36.8 / 1.449	2,720	38.6 / 1.520	3,110	45.3 / 1.783	3,780
	373	925 / 0.511	19.94	4.45 / 0.175	2.03 / 0.080	2.79 / 0.110	38.5 / 1.516	3,080	40.3 / 1.587	3,480	47.0 / 1.850	4,180
	444	1,110 / 0.511	21.84	4.45 / 0.175	2.03 / 0.080	2.79 / 0.110	40.4 / 1.591	3,510	42.2 / 1.661	3,940	48.9 / 1.925	4,660
	535	1,332 / 0.511	23.90	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	44.0 / 1.732	4,180	45.8 / 1.803	4,640	52.6 / 2.071	5,430
	646	1,591 / 0.511	26.14	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	46.2 / 1.819	5,510	48.0 / 1.890	6,020	54.9 / 2.161	6,900
	777	1,924 / 0.511	28.75	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	48.4 / 1.906	5,510	50.2 / 1.976	6,020	57.1 / 2.248	6,900
	1,111	2,745 / 0.511	34.39	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	53.6 / 2.110	7,310	55.4 / 2.181	7,880	62.4 / 2.457	8,850
3	2	150 / 0.511	8.23	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	53.0 / 2.087	4,080	54.8 / 2.157	4,640	61.8 / 2.433	5,600
	1	209 / 0.511	9.17	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	56.2 / 2.213	4,740	58.0 / 2.283	5,330	65.1 / 2.563	6,370
	1/0	266 / 0.511	10.34	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	58.8 / 2.315	5,340	60.6 / 2.386	5,960	67.7 / 2.665	7,030
	2/0	342 / 0.511	11.71	4.45 / 0.175	2.79 / 0.110	2.79 / 0.110	61.4 / 2.417	6,050	63.2 / 2.488	6,690	70.4 / 2.772	7,830
	3/0	418 / 0.511	12.95	4.45 / 0.175	2.79 / 0.110	3.56 / 0.140	64.8 / 2.551	6,850	66.6 / 2.622	7,520	75.4 / 2.969	9,000
	4/0	532 / 0.511	14.61	4.45 / 0.175	2.79 / 0.110	3.56 / 0.140	68.5 / 2.697	7,910	70.3 / 2.768	8,630	79.2 / 3.118	10,200
	262	646 / 0.511	16.61	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	73.2 / 2.882	9,190	75.0 / 2.953	9,950	84.0 / 3.307	11,650
	313	777 / 0.511	18.29	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	76.9 / 3.028	10,380	78.7 / 3.098	11,190	87.7 / 3.453	12,960
	373	925 / 0.511	19.94	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	80.5 / 3.169	11,670	82.3 / 3.240	12,510	91.4 / 3.598	14,380
	444	1,110 / 0.511	21.84	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	84.6 / 3.331	13,240	86.4 / 3.402	14,130	95.6 / 3.764	16,110
	535	1,332 / 0.511	23.90	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	89.2 / 3.512	15,120	91.0 / 3.583	16,050	100.3 / 3.949	18,150
	646	1,591 / 0.511	26.14	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	93.9 / 3.697	19,760	95.7 / 3.768	20,790	105.1 / 4.138	23,150
	777	1,924 / 0.511	28.75	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	98.6 / 3.882	19,760	100.4 / 3.953	20,790	109.9 / 4.327	23,150
	1,111	2,745 / 0.511	34.39	4.45 / 0.175	3.56 / 0.140	3.56 / 0.140	109.8 / 4.323	26,060	111.6 / 4.394	27,200	121.3 / 4.776	29,880

* lbs/1,000ft(approx.)=kg/km × 0.67

133% Insulation Level

Flexible rope stranding 15kV SEN(BS), SEL(BS) / 15kV TEN(BS), TEL(BS)

No. of Cores No.	Conductor			Thickness of Insulation	Thickness of Jacket	Thickness of Sheath	Unarmor		Armor		Armor and Sheath	
	Nominal Area AWG or MCM	Strand No./AWG	Dia. (Nominal) mm/inch	mm/inch	mm/inch	mm/inch	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *	Dia. Approx. mm/inch	Weight Approx. kg/km *
1	2	150 / 0.511	8.23	5.46 / 0.215	2.03 / 0.080	2.03 / 0.080	28.2 / 1.110	1,190	30.0 / 1.181	1,480	34.5 / 1.358	1,830
	1	209 / 0.511	9.17	5.46 / 0.215	2.03 / 0.080	2.03 / 0.080	29.7 / 1.169	1,370	31.5 / 1.240	1,680	36.0 / 1.417	2,040
	1/0	266 / 0.511	10.34	5.46 / 0.215	2.03 / 0.080	2.03 / 0.080	30.9 / 1.217	1,530	32.7 / 1.287	1,860	37.2 / 1.465	2,230
	2/0	342 / 0.511	11.71	5.46 / 0.215	2.03 / 0.080	2.03 / 0.080	32.1 / 1.264	1,740	33.9 / 1.335	2,080	38.4 / 1.512	2,460
	3/0	418 / 0.511	12.95	5.46 / 0.215	2.03 / 0.080	2.03 / 0.080	33.7 / 1.327	1,960	35.5 / 1.398	2,310	40.0 / 1.575	2,710
	4/0	532 / 0.511	14.61	5.46 / 0.215	2.03 / 0.080	2.03 / 0.080	35.4 / 1.394	2,250	37.2 / 1.465	2,630	41.7 / 1.642	3,050
	262	646 / 0.511	16.61	5.46 / 0.215	2.03 / 0.080	2.79 / 0.110	36.9 / 1.453	2,540	38.7 / 1.524	2,930	44.7 / 1.760	3,520
	313	777 / 0.511	18.29	5.46 / 0.215	2.03 / 0.080	2.79 / 0.110	38.6 / 1.520	2,870	40.4 / 1.591	3,280	46.4 / 1.827	3,900
	373	925 / 0.511	19.94	5.46 / 0.215	2.03 / 0.080	2.79 / 0.110	40.3 / 1.587	3,230	42.1 / 1.657	3,660	48.1 / 1.894	4,300
	444	1,110 / 0.511	21.84	5.46 / 0.215	2.03 / 0.080	2.79 / 0.110	42.2 / 1.661	3,680	44.0 / 1.732	4,120	50.0 / 1.969	4,790
	535	1,332 / 0.511	23.90	5.46 / 0.215	2.79 / 0.110	2.79 / 0.110	45.8 / 1.803	4,360	47.6 / 1.874	4,840	53.6 / 2.110	5,560
	646	1,591 / 0.511	26.14	5.46 / 0.215	2.79 / 0.110	2.79 / 0.110	48.0 / 1.890	4,960	49.8 / 1.961	5,460	55.8 / 2.197	6,210
	777	1,924 / 0.511	28.75	5.46 / 0.215	2.79 / 0.110	2.79 / 0.110	50.2 / 1.976	5,700	52.0 / 2.047	6,230	58.0 / 2.283	7,010
	1,111	2,745 / 0.511	34.39	5.46 / 0.215	2.79 / 0.110	2.79 / 0.110	55.4 / 2.181	7,530	57.2 / 2.252	8,110	63.2 / 2.488	8,960
3	2	150 / 0.511	8.23	5.46 / 0.215	2.79 / 0.110	2.79 / 0.110	57.3 / 2.256	4,630	59.1 / 2.327	5,230	66.2 / 2.606	6,280
	1	209 / 0.511	9.17	5.46 / 0.215	2.79 / 0.110	2.79 / 0.110	60.5 / 2.382	5,320	62.3 / 2.453	5,950	69.4 / 2.732	7,060
	1/0	266 / 0.511	10.34	5.46 / 0.215	2.79 / 0.110	3.56 / 0.140	63.1 / 2.484	5,940	64.9 / 2.555	6,600	73.7 / 2.902	8,050
	2/0	342 / 0.511	11.71	5.46 / 0.215	2.79 / 0.110	3.56 / 0.140	65.7 / 2.587	6,680	67.5 / 2.657	7,360	76.3 / 3.004	8,860
	3/0	418 / 0.511	12.95	5.46 / 0.215	2.79 / 0.110	3.56 / 0.140	69.1 / 2.720	7,500	70.9 / 2.791	8,220	79.8 / 3.142	9,810
	4/0	532 / 0.511	14.61	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	74.3 / 2.925	8,860	76.1 / 2.996	9,640	85.1 / 3.350	11,360
	262	646 / 0.511	16.61	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	77.5 / 3.051	9,920	79.3 / 3.122	10,730	88.3 / 3.476	12,520
	313	777 / 0.511	18.29	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	81.2 / 3.197	11,150	83.0 / 3.268	12,000	92.1 / 3.626	13,890
	373	925 / 0.511	19.94	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	84.8 / 3.339	12,470	86.6 / 3.409	13,360	95.8 / 3.772	15,340
	444	1,110 / 0.511	21.84	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	88.9 / 3.500	14,090	90.7 / 3.571	15,010	100.0 / 3.937	17,110
	535	1,332 / 0.511	23.90	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	93.5 / 3.681	16,000	95.3 / 3.752	16,970	104.7 / 4.122	19,200
	646	1,591 / 0.511	26.14	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	98.2 / 3.866	20,760	100.0 / 3.937	21,830	109.5 / 4.311	24,320
	777	1,924 / 0.511	28.75	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	103.0 / 4.055	20,760	104.8 / 4.126	21,830	114.4 / 4.504	24,320
	1,111	2,745 / 0.511	34.39	5.46 / 0.215	3.56 / 0.140	3.56 / 0.140	114.2 / 4.496	27,160	116.0 / 4.567	28,350	125.8 / 4.953	31,150

* lbs/1,000ft(approx.)=kg/km × 0.67

ENERFLEX®

Technical Data & Installation Information

»» Technical Data

»» Installation Information

JS Cable

1. Construction and Resistance of Conductor

1-1. Flexible Stranded Conductors

Conductor size area in circular mils	Nominal Stranding				Maximum dc resistance		
	AWG or cmil	No of wire / Individual strand dia(in)	mm²	Nominal conductor dia (in)	Ω/1000ft @25°C	Ω/1000ft @20°C	Ω/km @20°C
754	22	19 / 0.0063	0.38	0.031	16.01	15.7	51.5
1,216	20	19 / 0.0079	0.60	0.039	9.91	9.75	32.0
1,900	18	19 / 0.0100	0.96	0.049	7.21	7.06	23.2
2,601	16	19 / 0.0117	1.32	0.059	4.52	4.43	14.5
4,106	14	19 / 0.0147	2.08	0.074	2.85	2.79	9.15
6,503	12	19 / 0.0185	3.29	0.093	1.79	1.75	5.74
10,319	10	37 / 0.0167	5.23	0.113	1.13	1.11	3.63
14,948	8	37 / 0.0201	7.57	0.136	0.694	0.679	2.23
24,640	6	61 / 0.0201	12.49	0.175	0.436	0.427	1.40
41,668	4	133 / 0.0177	21.11	0.258	0.286	0.280	0.918
	or 4	105 / 0.0201					
66,140	2	133 / 0.0223	33.51	0.324	0.175	0.171	0.561
	or 2	150 / 0.0201					
84,438	1	209 / 0.0201	42.79	0.361	0.140	0.137	0.449
107,467	1/0	266 / 0.0201	54.45	0.407	0.111	0.109	0.358
138,172	2/0	342 / 0.0201	70.01	0.461	0.0885	0.0866	0.284
168,876	3/0	418 / 0.0201	85.57	0.510	0.0702	0.0687	0.225
214,933	4/0	532 / 0.0201	108.91	0.575	0.0557	0.0545	0.179
260,991	262	646 / 0.0201	132.25	0.654	0.0460	0.0450	0.148
313,916	313	777 / 0.0201	159.06	0.720	0.0384	0.0376	0.123
373,709	373	925 / 0.0201	189.36	0.785	0.0320	0.0313	0.103
448,451	444	1,110 / 0.0201	227.23	0.860	0.0270	0.0264	0.0866
538,141	535	1,332 / 0.0201	272.68	0.941	0.0224	0.0219	0.0718
642,780	646	1,591 / 0.0201	325.70	1.029	0.0186	0.0182	0.0597
777,315	777	1,924 / 0.0201	393.87	1.132	0.0154	0.0151	0.0495
1,109,008	1,111	2,745 / 0.0201	561.94	1.354	0.0106	0.0104	0.0341

Note : The total number of wire should be as specified ±1% providing that the maximum conductor diameter and conductor resistance dose not exceed the values indicated.

Tolerance for maximum resistance

Single conductor		Rmax= value from the Table 2
Multiple conductor		
	one layer	Rmax= value from the Table 2 x 1.02
	More than one layer two layer	Rmax= value from the Table 2 x 1.03
	Pair or other precabled units	Rmax= value from the Table 2 x 1.04
	More than one layer Pairs or other precabled units	Rmax= value from the Table 2 x 1.05

1-2. Class B Concentric Conductors

Conductor size area in circular mils	Nominal Stranding				Maximum dc resistance		
	AWG or cmil	No of wire / Individual strand dia(in)	mm2	Nominal conductor dia (in)	Ω/1000ft @25°C	Ω/1000ft @20°C	Ω/km @20°C
640	22	7/10.0	0.32	0.029	16.9	16.6	54.4
1,020	20	7/12.6	0.52	0.036	10.5	10.3	33.8
1,620	18	7/15.9	0.82	0.046	6.58	6.45	21.2
2,580	16	7/19.2	1.31	0.058	4.56	4.47	14.6
4,110	14	7/24.2	2.08	0.073	2.78	2.73	8.96
6,530	12	7/30.5	3.31	0.092	1.75	1.72	5.64
10,380	10	7/38.5	5.26	0.116	1.10	1.08	3.55
16,510	8	7/48.6	8.37	0.146	0.693	0.68	2.23
20,820	7	7/54.5	10.55	0.164	0.550	0.539	1.77
26,240	6	7/61.2	13.30	0.184	0.436	0.428	1.40
33,090	5	7/68.8	16.77	0.206	0.346	0.339	1.11
41,740	4	7/77.2	21.15	0.232	0.274	0.269	0.882
52,620	3	7/86.7	26.66	0.260	0.218	0.213	0.700
66,360	2	7/97.4	33.67	0.292	0.172	0.169	0.555
83,690	1	19/66.4	44.47	0.332	0.136	0.134	0.440
105,600	1/0	19/74.5	53.50	0.373	0.108	0.106	0.349
133,100	2/0	19/83.7	67.44	0.419	0.086	0.0843	0.277
167,800	3/0	19/94.0	85.02	0.470	0.068	0.0669	0.219
211,600	4/0	19/105.5	107.20	0.528	0.0535	0.0525	0.172
250,000	250	37/82.2	126.70	0.575	0.0458	0.0449	0.147
300,000	300	37/90.0	152.00	0.630	0.0381	0.0374	0.123
350,000	350	37/97.3	177.30	0.681	0.0327	0.0321	0.105
400,000	400	37/104.0	203.00	0.728	0.0283	0.0278	0.0911
500,000	500	37/116.2	253.30	0.813	0.0226	0.0222	0.0729
600,000	600	61/99.2	304.00	0.893	0.0191	0.0187	0.0613
750,000	750	61/110.9	380.00	0.998	0.0151	0.0148	0.0486
1,000,000	1,000	61/128.0	506.70	1.152	0.0113	0.0111	0.0364
1.250,000	1,250	91/117.2	633.30	1.289	0.00904	0.00888	0.0291
1,500,000	1,500	91/128.4	760.00	1.412	0.00755	0.00740	0.0243
2,000,000	2,000	127/125.5	1013.30	1.632	0.00565	0.00555	0.0182

Tolerance for maximum resistance

Single conductor		Rmax= value from the Table 3
Multiple conductor		
	one layer	Rmax= value from the Table 3 x 1.02
	More than one layer two layer	Rmax= value from the Table 3 x 1.03
	Pair or other precabled units	Rmax= value from the Table 3 x 1.04
	More than one layer Pairs or other precabled units	Rmax= value from the Table 3 x 1.05

2. Minimum Insulation Resistance and High-voltage AC Test Potentials

2-1. Type P(X110) & LSE Insulated Cables

Conductor Size	Insulation Resistance MΩ • 1,000 ft at 15.6°C		Test Potentials Volt	
AWG/kcmil	0-2000V (Type P)	0-600V (Type LSE)	0-600V	601 ~ 2000V
22 ~16	3,000	625	1,500	-
14 ~ 9	1,600	325	3,500	5,500
8 ~ 2	1,200	225	5,500	7,000
1 ~ 4/0	800	150	7,000	8,000
250 ~ 525	650	120	8,000	9,500
526 and larger	550	100	10,000	11,500

2-2. Type E Insulated Cables for 5 ~ 15kV Shielded Conductors

Voltage rating of cable (phase-to-phase circuit voltage)	Size of conductor	Insulation resistance constant K (based on1,000 feet, 15.6°C)	100% Insulation level (grounded neutral)		133% Insulation level (ungrounded neutral)	
			a.c.	d.c.	a.c.	d.c.
	AWG ~ kcmil	–	kV	kV	kV	kV
5kV	8~1000(1,111)	20,000	13	N/A	13	N/A
8kV	6~1000(1,111)	20,000	18	45	22	45
15kV	6~1000(1,111)	20,000	27	70	33	80

NOTE : Based on a conductor kilometer : K=6100 (see, table 12.6 of UL 1072)

3. Electrical Characteristics

Inductance for 2, 3 & 4 conductor cables is given by the formula :

$L = 0.2 \times (\ln(\frac{2a}{d}) + 0.25) \times 10^{-6}$

L = Inductance in H/m and phase

a = Axial space between conductor in mm.

a = conductor diameter

Reactance for 2, 3 & 4 conductor cables is given by the formula :

$X = 2 \times \pi \times f \times L \times l$

X = Reactance in ohm pr. phase

f = frequency in Hz

L = Inductance in H/m and phase

l = conductor length in meter

Impedance for 2 ,3 & 4 conductor cables is given by the formula :

$Z = \sqrt{(R^2+X^2)}$

Z = Impedance in ohm pr. phase

R = Resistance at operating temp. in ohm pr. phase

X = Reactance in ohm pr. phase

4. Capacitance, Inductance & Reactance Data

4-1. High Voltage Cable(5kV, 8kV, 15kV)

1) 5kV FR CABLE (Single Core)

Conductor Nominal Area	5kV 100% Insulation Level				5kV 133% Insulation Level			
	Capacitance	Inductance	Reactance	Reactance	Capacitance	Inductance	Reactance	Reactance
	C	L	X	X	C	L	X	X
AWG/kcmil	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km
8	0.216	0.485	0.152	0.183	0.183	0.507	0.159	0.191
6	0.250	0.466	0.146	0.176	0.210	0.476	0.150	0.179
5	0.302	0.431	0.135	0.162	0.251	0.440	0.138	0.166
4	0.318	0.421	0.132	0.159	0.264	0.431	0.135	0.162
2	0.356	0.402	0.126	0.152	0.295	0.419	0.132	0.158
1	0.404	0.391	0.123	0.147	0.333	0.399	0.125	0.150
1/0	0.442	0.377	0.119	0.142	0.363	0.385	0.121	0.145
2/0	0.480	0.366	0.115	0.138	0.393	0.373	0.117	0.141
3/0	0.529	0.352	0.111	0.133	0.432	0.360	0.113	0.136
4/0	0.583	0.340	0.170	0.128	0.475	0.348	0.109	0.131
262	0.632	0.331	0.104	0.125	0.513	0.338	0.106	0.127
313	0.685	0.322	0.101	0.121	0.556	0.328	0.103	0.124
373	0.739	0.314	0.099	0.118	0.598	0.320	0.101	0.121
444	0.799	0.306	0.096	0.115	0.646	0.319	0.100	0.120
535	0.865	0.305	0.096	0.115	0.698	0.311	0.098	0.117
646	0.935	0.298	0.094	0.112	0.753	0.303	0.095	0.114
777	1.004	0.292	0.092	0.110	0.808	0.302	0.095	0.114
1,111	1.168	0.285	0.089	0.107	0.937	0.289	0.091	0.109

2) 5kV FR Cable(Three Core)

Conductor Nominal Area	5kV 100% Insulation Level				5kV 133% Insulation Level			
	Capacitance	Inductance	Reactance	Reactance	Capacitance	Inductance	Reactance	Reactance
	C	L	X	X	C	L	X	X
AWG/kcmil	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km
8	0.216	0.380	0.119	0.143	0.083	0.400	0.126	0.151
6	0.250	0.358	0.112	0.135	0.210	0.375	0.118	0.141
5	0.302	0.331	0.104	0.125	0.251	0.347	0.109	0.131
4	0.318	0.325	0.102	0.122	0.264	0.340	0.107	0.128
2	0.356	0.311	0.098	0.117	0.295	0.325	0.102	0.123
1	0.404	0.298	0.094	0.112	0.333	0.311	0.098	0.117
1/0	0.442	0.289	0.091	0.109	0.363	0.301	0.095	0.113
2/0	0.480	0.282	0.088	0.106	0.393	0.293	0.092	0.110
3/0	0.529	0.273	0.086	0.103	0.432	0.285	0.089	0.107
4/0	0.583	0.266	0.083	0.100	0.475	0.276	0.087	0.104
262	0.632	0.261	0.082	0.098	0.513	0.270	0.085	0.102
313	0.685	0.255	0.080	0.096	0.556	0.264	0.083	0.099
373	0.739	0.251	0.079	0.094	0.598	0.259	0.081	0.098
444	0.799	0.246	0.077	0.093	0.646	0.254	0.080	0.096
535	0.865	0.242	0.076	0.091	0.698	0.249	0.078	0.094
646	0.935	0.238	0.075	0.090	0.753	0.245	0.077	0.092
777	1.004	0.235	0.074	0.089	0.808	0.241	0.076	0.091
1,111	1.168	0.229	0.072	0.086	0.937	0.234	0.074	0.088

3) 8kV FR Cable (Single Core)

Conductor Nominal Area	8kV 100% Insulation Level				8kV 133% Insulation Level			
	Capacitance	Inductance	Reactance	Reactance	Capacitance	Inductance	Reactance	Reactance
	C	L	X	X	C	L	X	X
AWG/kcmil	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km
6	0.205	0.482	0.151	0.182	0.180	0.492	0.154	0.185
5	0.245	0.445	0.140	0.168	0.214	0.462	0.145	0.174
4	0.258	0.436	0.137	0.164	0.224	0.453	0.142	0.171
2	0.287	0.424	0.133	0.160	0.249	0.433	0.136	0.163
1	0.324	0.404	0.127	0.152	0.280	0.12	0.129	0.155
1/0	0.353	0.390	0.123	0.147	0.304	0.398	0.125	0.150
2/0	0.383	0.378	0.119	0.142	0.329	0.386	0.121	0.145
3/0	0.420	0.365	0.115	0.138	0.360	0.373	0.117	0.140
4/0	0.462	0.353	0.111	0.133	0.395	0.359	0.113	0.136
262	0.499	0.342	0.108	0.129	0.426	0.349	0.110	0.132
313	0.540	0.333	0.105	0.126	0.460	0.340	0.107	0.128
373	0.581	0.325	0.102	0.122	0.494	0.338	0.106	0.128
444	0.627	0.324	0.102	0.122	0.532	0.329	0.103	0.124
535	0.678	0.315	0.099	0.119	0.574	0.321	0.101	0.121
646	0.731	0.308	0.097	0.116	0.619	0.319	0.100	0.120
777	0.784	0.307	0.096	0.116	0.663	0.312	0.098	0.118
1,111	0.909	0.294	0.092	0.111	0.767	0.298	0.094	0.112

4) 8kV FR Cable(Three Core)

Conductor Nominal Area	8kV 100% Insulation Level				8kV 133% Insulation Level			
	Capacitance	Inductance	Reactance	Reactance	Capacitance	Inductance	Reactance	Reactance
	C	L	X	X	C	L	X	X
AWG/kcmil	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km
6	0.205	0.377	0.119	0.142	0.180	0.394	0.124	0.149
5	0.245	0.349	0.110	0.132	0.214	0.364	0.114	0.137
4	0.258	0.342	0.107	0.129	0.224	0.357	0.112	0.134
2	0.287	0.327	0.103	0.123	0.249	0.341	0.107	0.129
1	0.324	0.313	0.098	0.118	0.280	0.325	0.102	0.123
1/0	0.353	0.303	0.095	0.114	0.304	0.315	0.099	0.119
2/0	0.383	0.295	0.093	0.111	0.329	0.306	0.096	0.115
3/0	0.420	0.286	0.090	0.108	0.360	0.297	0.093	0.112
4/0	0.462	0.278	0.087	0.105	0.395	0.288	0.090	0.109
262	0.499	0.271	0.085	1.102	0.426	0.281	0.088	0.106
313	0.540	0.265	0.083	0.100	0.460	0.274	0.086	0.103
373	0.581	0.260	0.082	0.098	0.494	0.268	0.084	1.101
444	0.627	0.255	0.080	0.096	0.532	0.263	0.083	0.099
535	0.678	0.250	0.079	0.094	0.574	0.258	0.081	0.097
646	0.731	0.246	0.077	0.093	0.619	0.253	0.079	0.095
777	0.784	0.242	0.076	0.091	0.663	0.249	0.078	0.094
1,111	0.909	0.235	0.074	0.089	0.767	0.241	0.076	0.091

5) 15kV FR Cable (Single Core)

Conductor Nominal Area	15kV 100% Insulation Level				15kV 133% Insulation Level			
	Capacitance	Inductance	Reactance	Reactance	Capacitance	Inductance	Reactance	Reactance
	C	L	X	X	C	L	X	X
AWG/kcmil	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km
2	0.216	0.443	0.139	0.167	0.191	0.451	0.142	0.170
1	0.241	0.421	0.132	0.159	0.212	0.429	0.135	0.162
1/0	0.261	0.408	0.128	0.154	0.229	0.415	0.130	0.156
2/0	0.281	0.395	0.124	0.149	0.245	0.402	0.126	0.152
3/0	0.307	0.382	0.120	0.144	0.267	0.388	0.122	0.146
4/0	0.335	0.369	0.116	0.139	0.291	0.375	0.118	0.141
262	0.360	0.358	0.112	0.135	0.312	0.371	0.116	0.140
313	0.388	0.355	0.112	0.134	0.335	0.360	0.113	0.136
373	0.416	0.346	0.109	0.130	0.358	0.351	0.110	0.132
444	0.447	0.337	0.106	0.127	0.384	0.341	0.107	0.129
535	0.481	0.334	0.105	0.126	0.413	0.338	0.106	0.127
646	0.517	0.326	0.102	0.123	0.443	0.329	0.103	0.124
777	0.552	0.319	0.100	0.120	0.473	0.322	0.101	0.121
1,111	0.637	0.304	0.096	0.115	0.544	0.307	0.096	0.116

6) 15kV FR Cable (Three Core)

Conductor Nominal Area	15kV 100% Insulation Level				15kV 133% Insulation Level			
	Capacitance	Inductance	Reactance	Reactance	Capacitance	Inductance	Reactance	Reactance
	C	L	X	X	C	L	X	X
AWG/kcmil	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km	μF/ km	mH / km	50Hz Ω / km	60Hz Ω / km
2 0	0.216	0.358	0.112	0.135	0.191	0.374	0.118	0.141
1 0	0.241	0.342	0.107	0.129	0.212	0.356	0.112	0.134
1/0	0.261	0.331	0.104	0.125	0.229	0.345	0.108	0.130
2/0	0.281	0.321	0.101	0.121	0.245	0.335	0.105	0.126
3/0	0.307	0.311	0.098	0.117	0.267	0.324	0.102	0.122
4/0	0.335	0.301	0.095	0.114	0.291	0.313	0.098	0.118
262	0.360	0.293	0.092	0.111	0.312	0.305	0.096	0.115
313	0.388	0.286	0.090	0.108	0.335	0.297	0.093	0.112
373	0.416	0.280	0.088	0.106	0.358	0.290	0.091	0.109
444	0.447	0.274	0.086	0.103	0.384	0.284	0.089	0.107
535	0.481	0.268	0.084	0.101	0.413	0.277	0.087	0.105
646	0.517	0.263	0.083	0.099	0.443	0.272	0.085	0.102
777	0.552	0.258	0.081	0.097	0.473	0.267	0.084	0.100
1,111	0.637	0.249	0.078	0.094	0.544	0.257	0.081	0.097

4-2. Low Voltage Cable (FR Cable)

1) 2kV SP(HD) FR Cable

Conductor Nominal Area	2kV SP(HD)			2kV SPBS(HD)		
	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance
	L	X	X	L	X	X
AWG/kcmil	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km
4/0	0.254	0.080	0.096	0.333	0.105	0.126
262	0.249	0.078	0.094	0.325	0.102	0.122
313	0.244	0.077	0.092	0.315	0.099	0.119
373	0.240	0.075	0.090	0.307	0.097	0.116
444	0.236	0.074	0.089	0.299	0.094	0.113
535	0.237	0.075	0.089	0.296	0.093	0.111
646	0.234	0.073	0.088	0.295	0.093	0.111
777	0.230	0.072	0.087	0.289	0.091	0.109
1,111	0.224	0.071	0.085	0.282	0.089	0.106

2) 2kV SP FR Cable

Conductor Nominal Area	2kV SP			2kV SPBS		
	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance
	L	X	X	L	X	X
AWG/kcmil	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km
14	0.362	0.114	0.137	0.506	0.159	0.191
12	0.337	0.106	0.127	0.471	0.148	0.177
10	0.309	0.097	0.117	0.429	0.135	0.162
8	0.310	0.097	0.117	0.416	0.131	0.157
6	0.289	0.091	0.109	0.382	0.120	0.144
5	0.274	0.086	0.103	0.361	0.114	0.136
4	0.269	0.084	0.101	0.352	0.111	0.133
3	0.263	0.083	0.099	0.343	0.108	0.129
2	0.258	0.081	0.097	0.335	0.105	0.126
1	0.257	0.081	0.097	0.323	0.101	0.122
1/0	0.250	0.079	0.094	0.312	0.098	0.117
2/0	0.244	0.077	0.092	0.302	0.095	0.114
3/0	0.239	0.075	0.090	0.302	0.095	0.114
4/0	0.234	0.073	0.088	0.292	0.092	0.110
262	0.235	0.074	0.088	0.287	0.090	0.108
313	0.231	0.073	0.087	0.280	0.088	0.106
373	0.228	0.071	0.086	0.274	0.086	0.103
444	0.224	0.071	0.085	0.268	0.084	0.101
535	0.227	0.071	0.086	0.266	0.084	0.100
646	0.224	0.070	0.084	0.261	0.082	0.098
777	0.222	0.070	0.084	0.256	0.080	0.097
1,111	0.222	0.070	0.084	0.258	0.081	0.097

3) 600V FR Cable(Single & Multi Cores)

Conductor Nominal Area	Single core(SP TYPE)			Single core(SPBS TYPE)			Multi core cable (2,3,4 cores)		
	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance
	L	X	X	L	X	X	L	X	X
AWG/kcmil	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km
14	0.323	0.101	0.122	0.487	0.153	0.184	0.323	0.101	0.122
12	0.301	0.095	0.114	0.453	0.142	0.171	0.301	0.095	0.114
10	0.279	0.088	0.105	0.413	0.130	0.156	0.279	0.088	0.105
8	0.294	0.093	0.111	0.406	0.128	0.153	0.294	0.093	0.111
6	0.275	0.086	0.104	0.374	0.117	0.141	0.275	0.086	0.104
5	0.263	0.083	0.099	0.354	0.111	0.134	0.258	0.081	0.097
4	0.258	0.081	0.097	0.346	0.109	0.130	0.254	0.080	0.096
3	0.253	0.080	0.096	0.337	0.106	0.127	0.249	0.078	0.094
2	0.249	0.078	0.094	0.329	0.103	0.124	0.245	0.077	0.092
1	0.249	0.078	0.094	0.317	0.100	0.120	0.245	0.077	0.093
1/0	0.243	0.076	0.091	0.306	0.096	0.116	0.240	0.075	0.090
2/0	0.238	0.075	0.090	0.297	0.093	0.112	0.235	0.074	0.089
3/0	0.233	0.073	0.088	0.297	0.093	0.112	0.230	0.072	0.087
4/0	0.228	0.072	0.086	0.288	0.090	0.108	0.226	0.071	0.085
262	0.230	0.072	0.087	0.284	0.089	0.107	0.228	0.072	0.086
313	0.226	0.071	0.085	0.277	0.087	0.104	0.225	0.071	0.085
373	0.223	0.070	0.084	0.270	0.085	0.102	0.222	0.070	0.084
444	0.221	0.069	0.083	0.264	0.083	0.100	0.219	0.069	0.083
535	0.223	0.070	0.084	0.264	0.083	0.099	0.222	0.070	0.084
646	0.221	0.069	0.083	0.258	0.081	0.097	0.219	0.069	0.083
777	0.218	0.069	0.082	0.254	0.080	0.096	0.217	0.068	0.082
1,111	0.218	0.068	0.082	0.254	0.080	0.096	–	–	–

4-3. Low Voltage Cable (FS Cable)

1) 2kV FS-SP(HD) FS Cable

Conductor Nominal Area	2FS SP(HD)			2kV FS- SPBS(HD)		
	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance
	L	X	X	L	X	X
AWG/kcmil	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km
4/0	0.254	0.080	0.096	0.333	0.105	0.126
262	0.249	0.078	0.094	0.325	0.102	0.122
313	0.244	0.077	0.092	0.315	0.099	0.119
373	0.240	0.075	0.090	0.307	0.097	0.116
444	0.236	0.074	0.089	0.299	0.094	0.113
535	0.237	0.075	0.089	0.296	0.093	0.111
646	0.234	0.073	0.088	0.295	0.093	0.111
777	0.230	0.072	0.087	0.289	0.091	0.109
1,111	0.224	0.071	0.085	0.282	0.089	0.106

2) 2kV FS-SP FS Cable

Conductor Nominal Area	2FS SP			2kV FS- SPBS		
	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance
	L	X	X	L	X	X
AWG/kcmil	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km
14	0.362	0.114	0.137	0.506	0.159	0.191
12	0.337	0.106	0.127	0.471	0.148	0.177
10	0.309	0.097	0.117	0.429	0.135	0.162
8	0.310	0.097	0.117	0.416	0.131	0.157
6	0.289	0.091	0.109	0.382	0.120	0.144
5	0.274	0.086	0.103	0.361	0.114	0.136
4	0.269	0.084	0.101	0.352	0.111	0.133
3	0.263	0.083	0.099	0.343	0.108	0.129
2	0.258	0.081	0.097	0.335	0.105	0.126
1	0.257	0.081	0.097	0.323	0.101	0.122
1/0	0.250	0.079	0.094	0.312	0.098	0.117
2/0	0.244	0.077	0.092	0.302	0.095	0.114
3/0	0.239	0.075	0.090	0.302	0.095	0.114
4/0	0.234	0.073	0.088	0.292	0.092	0.110
262	0.235	0.074	0.088	0.287	0.090	0.108
313	0.231	0.073	0.087	0.280	0.088	0.106
373	0.228	0.071	0.086	0.274	0.086	0.103
444	0.224	0.071	0.085	0.268	0.084	0.101
535	0.227	0.071	0.086	0.266	0.084	0.100
646	0.224	0.070	0.084	0.261	0.082	0.098
777	0.222	0.070	0.084	0.256	0.080	0.097
1,111	0.222	0.070	0.084	0.258	0.081	0.097

3) 600V FS Cable (Single & Multi Cores)

Conductor Nominal Area	Single core(FS-SP TYPE)			Single core(FS-SPBS TYPE)			Multi core cable (2,3,4 cores)		
	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance	Inductance	Reactance	Reactance
	L	X	X	L	X	X	L	X	X
AWG/kcmil	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km	mH / km	50Hz Ω / km	60Hz Ω / km
14	0.323	0.101	0.122	0.487	0.153	0.184	0.323	0.101	0.122
12	0.301	0.095	0.114	0.453	0.142	0.171	0.30	1 0.095	0.114
10	0.279	0.088	0.105	0.413	0.130	0.156	0.279	0.088	0.105
8	0.294	0.093	0.111	0.406	0.128	0.153	0.294	0.093	0.111
6	0.275	0.086	0.104	0.374	0.117	0.141	0.275	0.086	0.104
5	0.263	0.083	0.099	0.354	0.111	0.134	0.258	0.081	0.097
4	0.258	0.081	0.097	0.346	0.109	0.130	0.254	0.080	0.096
3	0.253	0.080	0.096	0.337	0.106	0.127	0.249	0.078	0.094
2	0.249	0.078	0.094	0.329	0.103	0.124	0.245	0.077	0.092
1	0.249	0.078	0.094	0.317	0.100	0.120	0.245	0.077	0.093
1/0	0.243	0.076	0.091	0.306	0.096	0.116	0.240	0.075	0.090
2/0	0.238	0.075	0.090	0.297	0.093	0.112	0.235	0.074	0.089
3/0	0.233	0.073	0.088	0.297	0.093	0.112	0.230	0.072	0.087
4/0	0.228	0.072	0.086	0.288	0.090	0.108	0.226	0.071	0.085
262	0.230	0.072	0.087	0.284	0.089	0.107	0.228	0.072	0.086
313	0.226	0.071	0.085	0.277	0.087	0.104	0.225	0.071	0.085
373	0.223	0.070	0.084	0.270	0.085	0.102	0.222	0.070	0.084
444	0.221	0.069	0.083	0.264	0.083	0.100	0.219	0.069	0.083
535	0.223	0.070	0.084	0.264	0.083	0.099	0.222	0.070	0.084
646	0.221	0.069	0.083	0.258	0.081	0.097	0.219	0.069	0.083
777	0.218	0.069	0.082	0.254	0.080	0.096	0.217	0.068	0.082
1,111	0.218	0.068	0.082	0.254	0.080	0.096	–	–	–

4-4. Low Voltage Signal Cable (FR Cable)

Cable type \ Size		Unit	18awg	16awg	14awg
Mutual Capacitance	Individual Shield	nF/km	95	100	115
	Collective Shield	nF/km	85	85	90
Inductance		nF/km	0.76	0.72	0.66

5. Max. Current-Carrying Capacity

5-1. Distribution, Control and Signal Cable
- Signal Banked Maximum Capacity (Type “P & LSE” @45°C Ambient)

Conductor			Single Conductor			Two Conductor			Three Conductor		
AWG/MCM	mm²	Circular mils	T	LSE LSX T/N E, X	S, P	T	LSE LSX T/N E, X	S, P	T	LSE LSX T/N E, X	S, P
			75°C	90°C	100°C	75°C	90°C	100°C	75°C	90°C	100°C
20	0.6	1,022	9	11	12	8	9	10	6	8	9
18	1.0	1,624	13	15	16	11	13	14	9	11	12
16	1.2	2,583	18	21	23	15	18	19	13	15	16
14	2.1	4,110	28	34	37	24	29	31	20	24	25
12	3.3	6,530	35	43	45	31	36	40	24	29	31
10	5.3	10,400	45	54	58	38	46	49	32	38	41
8	8.4	16,500	56	68	72	49	60	64	41	48	52
7	10.6	20,800	65	77	84	59	72	78	48	59	63
6	13.3	26,300	73	88	96	66	79	85	54	65	70
5	16.8	33,100	84	100	109	78	92	101	64	75	82
4	21.1	41,700	97	118	128	84	101	110	70	83	92
3	26.7	52,600	112	134	146	102	121	132	83	99	108
2	33.6	66,400	129	156	169	115	137	149	93	111	122
1	42.4	83,700	150	180	194	134	161	174	110	131	143
1/0	53.5	106,000	174	207	227	153	183	199	126	150	164
2/0	67.4	133,000	202	240	262	187	233	242	145	173	188
3/0	85.0	168,000	231	278	300	205	245	265	168	201	218
4/0	107.2	212,000	271	324	351	237	284	307	194	232	252
250MCM	127.0	250,000	300	359	389	264	316	344	217	259	282
262MCM	133.1	262,600		378	407		333	358		273	294
300MCM	152.0	300,000	345	412	449	296	354	385	242	290	316
313MCM	158.7	313,100		423	455		363	391		298	321
350MCM	177.0	350,000	372	446	485	324	387	421	265	317	344
373MCM	189.4	373,700		474	516		406	442		332	361
400MCM	203.0	400,000	410	489	533	351	419	455	286	342	371
444MCM	225.2	444,400		546	588		468	504		382	411
500MCM	253.0	500,000	469	560	609	401	479	520	329	393	428
535MCM	271.3	535,000	485	615	662	415	526	566	340	432	465
600MCM	304.0	600,000	521	623	678	450	539	585	368	440	478
646MCM	327.6	646,000		671	731		581	632		474	516
750MCM	380.0	750,000	605	723	786	503	602	656	413	494	537
777MCM	394.2	777,000		755	822		629	684		516	562
1,000MCM	507.0	1,000,000	723	867	939						
1,111MCM	563.1	1,111,000		942	1,025		784	854		644	701
1,250MCM	633.0	1,250,000	824	990	1,072						
1,500MCM	706.0	1,500,000	917	1,100	1,195						
2,000MCM	1,013.0	2,000,000	1,076	1,292	1,400						

5-2. Distribution, Control and Signal Cable
- Signal Banked Maximum Capacity (UL-1309(1995), Type “ X110” @45°C Ambient)

Conductor			Single Conductor	Two Conductor	Three Conductor
AWG/MCM	mm²	Circular mils	Maximum conductor temperature : 110°C		
14	2.1	4,110	39	33	27
12	3.3	6,530	49	41	33
10	5.3	10,400	61	52	43
8	8.4	16,900	77	68	55
7	10.6	20,800	88	82	67
6	13.3	26,300	100	90	74
5	16.8	33,100	114	105	85
4	21.1	41,700	134	115	95
3	26.7	52,600	153	138	113
2	33.6	66,400	178	156	126
1	42.4	83,700	205	183	149
1/0	53.5	106,000	236	208	171
2/0	67.4	133,000	274	265	197
3/0	85.0	168,000	317	279	229
4/0	107	212,000	369	323	264
	127	250,000	409	360	295
	152	300,000	470	403	330
	177	350,000	508	441	361
	203	400,000	557	494	390
	253	500,000	638	546	448
	271	535,000	660	565	464
	304	600,000	710	614	502
	327	646,000	-	-	-
	380	750,000	824	686	536
	394	777,000	-	-	-
	507	1,000,000	988	-	-
	562	1,110,000	-	-	-
	633	1,250,000	1,128	-	-
	706	1,500,000	1,254	-	-
	1,013	2,000,000	1,473	-	-

6. Thickness of Insulation, Jacket and Sheath

6-1. Thickness of Extruded Type P Insulation

Conductor size (AWG or kcmil)	Rated Voltage					
	600V		2000V		2000V(HD)	
	(mil)	(mm)	(mil)	(mm)	(mil)	(mm)
22-15	30	0.76				
14-9	30	0.76	45	1.14		
8-2	45	1.14	55	1.40		
1-3/0	55	1.4	65	1.65		
4/0	55	1.4	65	1.65	105	2.67
213-500	65	1.65	75	1.90	105	2.67
501-1000	80	2.03	90	2.29	120	3.05
1,001-2,000	110(95)	2.79(2.41)	110	2.79	120	3.05

NOTE 1 :
Heavy-duty(HD) insulation thickness should be considered applications where installation and service conditions are such that the additional mechanical protection is considered necessary.
Heavy-duty(HD) constructions are permitted in single conductor sizes 4/0 AWG and larger for applications as cable external to enclosures for interconnection purposes.
Where HD thicknesses are used on single conductor cables,the thickness is applied in two layers, both layers of material should be Type P material
NOTE 2 : ( ) data is applicable in UL1309(1995)

6-2. Thickness of Extruded Type LSE Insulationn

Conductor size (AWG or kcmil)	Rated Voltage 600V	
	(mil)	(mm)
14-9	30	0.76
8-2	45	1.14
1-4/0	55	1.4
213-500	65	1.65
501-1,000	80	2.03
1,001-2,000	95	2.41

6-3. Thickness of Extruded Type E Insulation

Voltage rating of cable (phase to phase circuit voltage)	Conductor size (AWG or kcmil)	Thickness of insulation			
		100% insulation level		133% insulation level	
		(mil)	(mm)	(mil)	(mm)
5,000	8AWG - 1000kcmil	90	2.29	90	2.29
8,000	6 - 1000	115	2.92	140	3.56
15,000	2 - 1000	260	4.45	215	5.46

6-4. Thickness of Jackets or Sheath

Calculated diameter of cable under jacket (in)	Jacket thickness	
	(mil)	(mm)
0-10.79	45 [a]	1.14 [a]
10.80-17.78	60	1.52
17.79-38.10	80	2.03
38.11-63.50	110	2.79
63.51 and larger	140	3.56

a 1.52mm is optional for a heavy-duty jacket. Minimum point is 80% of minimum average wall.

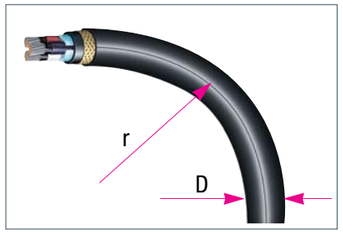
1. Maximum Ambient Temperature

The use of TYPE P insulation type should be restricted to the 70°C (158°F) in shipboard spaces.

2. Minimum Bending Radius

Cable Type	Minimum Bending
Radius Armored Cable	8D
Unarmored Cable	6D

D : Completed cable's overall diameter (mm)
r : Bending Radius



3. Cable Pulling-in Force

Care should be taken to prevent damage to insulation or distortion of cable during installation. Straight pulling forces should not exceed 0.008 times the tensile strength of the copper cross-section area when pulling on the conductors utilizing pulling eyes and bolts. When pulling with a basket-weave grip, maximum pulling tension (per grip) should not exceed 460kg (1000 lb), or the value calculated above, whichever is greater.
The sidewall pressure should not exceed 450kg/m (300lb/ft) of the inside radius of the bend. Cables should not be pulled in freezing conditions. If it is necessary to pull in these conditions, cables should be stored at a temperature above 10°C(50°F) for 24 h prior to installation, if the cable has been previously stored in an area under 0°C(32°F).
Additional consideration should be given when installing low-smoke cables due to their possible lower tear strength and coefficient of friction.

4. Single-Conductor AC Cables

To avoid an undesirable inductive effect in ac installations, the following precautions should be observed:

a) Closed magnetic circuits around single-conductor ac cable should be avoided, and no magnetic material permitted between cables of different phases of a circuit.

b) Single-conductor ac cable s should not be located closer than 76mm(3 in) from parallel magnetic material.

c) Single conductor ac cable should be supported on insulators. Armor, if used, should be grounded only at approximately the midpoint of the cable run.

d) Where single-conductor ac cables penetrate the bulkhead, conductors of each phase of the same circuit should pass through a common nonferrous bulkhead plate to prevent heating of the bulkhead.

e) Single-conductor cables in groups should be arranged to minimize their inductive effect. This may be accomplished by the transposition of cables in groups of three (one each phase) to give the effect of triplexed cable. This transposition should be made at intervals of not over 15m(50ft) and need not be made in cable runs of less than 30m(100ft).

5. Cable Continuity and Grounding

All cable should be continuous between terminations , however, splicing is permitted under certain conditions . For cable provided with armor, the armor should be electrically continuous between terminations and should be grounded at each end (multiconductor cables only); except that for final subcircuits, the armor may be grounded at the supply end only.

6. Cable Locations

Cable installation should avoid spaces where excessive heat and gases may be encountered such as galleys, boiler rooms and pump rooms, and spaces where cables may be exposed to damage such as cargo spaces and exposed sides of deck houses. Cables should not be located in cargo tanks, ballast tanks, fuel tanks, or water tanks except to supply equipment and instrumentation specifically designed for such locations and whose functions require it to be installed in the tank. Such equipment might include submerged cargo pumps and associated control devices, cargo monitoring instrumentation, and underwater navigation systems.

Unless unavoidable, cables should not be located behind or embedded in structural heat insulation. Where cables are installed behind paneling, all connections should be readily accessible, and the location of concealed connections should be readily accessible, and the location of concealed connection boxes should be indicated. Cables should preferably not be run through refrigerated cargo spaces.

Cables should not be located in bilges.

7. Cable Protection

Cables should be adequately protected where exposed to mechanical damage. Cables should be secured against chafing or displacement due to vibration. Cables in bunkers, and where particularly liable to damage, such as locations in way of cargo ports, hatches, tank tops, and where passing through decks, should be protected by removable metal coverings, angle irons, or other equivalent means.

Where cables pass through insulation, they should be protected by a continuous pipe. For wiring entering refrigerated compartments, the pipe should be of heat-insulating material (fiber or phenolic tubing) joined to the bulkhead-stuffing tube, or a section of such material should be inserted between the bulkhead-stuffing tube and the metallic pipe.

Where cables a re installed in pipes, the space factor (ratio of the sum of the crosss-sectional areas corresponding to the external diameter of the cables to the internal cross-sectional areas of the pipe) shall not be greater than 0.41, except for two cables, where the space factor shall not exceed 0.31. Pipes shall be so arranged or designed or designed to prevent the accumulation of internal condensation.