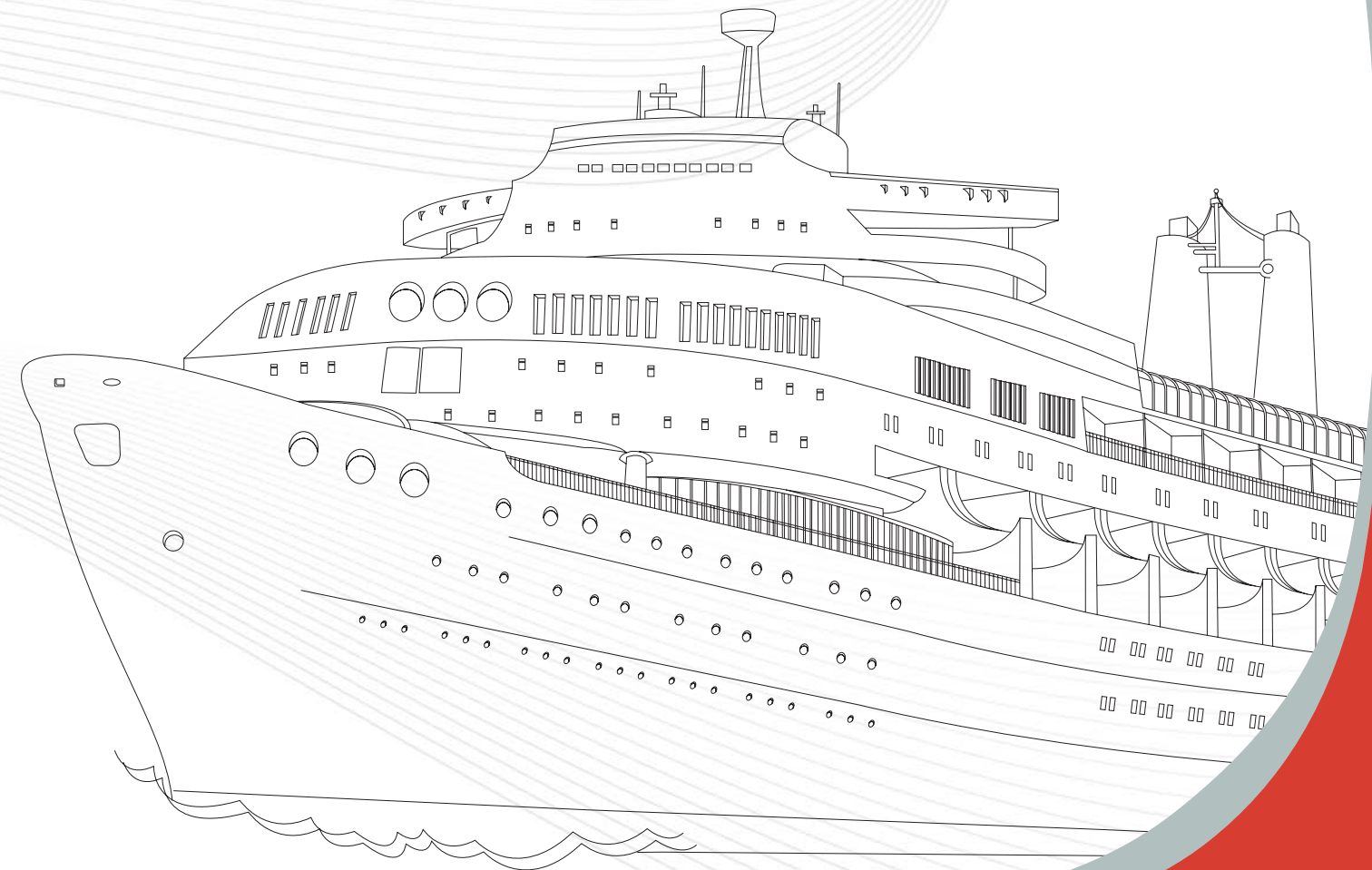




Halogen Free Shipboard Cables (XLPE Insulation / SHF1 Sheath Cables)

IEC 60092-350 / IEC 60092-353 / IEC 60092-376



■ Products & Systems of JS Cable



Marine & Offshore Cables Rubber & Specialty Cables Electric Cables Data Cables Copper Rod

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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



C o m p a n y P r o f i l e

- 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.



C o t e n t s

Normal

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Cable Designation

Materials	1st Letter	2nd Letter	3rd Letter	4th Letter
	Insulation	Inner covering (Inner sheath)	Aarmor	Sheath (Outer sheath)
XLPE	T			
MGT+XLPE	S			
Halogen Free Tape		F		
Halogen Free Thermoplastic compound (= SHF1)		I		I
Galvanized Steel Wire			C	
Copper Wire			O	
Non		X	X	
Added Abbreviation (Screen Method)				
(i)			Individual Screen	
(c)			Collective Screen	
(i & c)			Individual & Collective Screen	



Normal Flame Retardant Power & Control Cable (Armored)

0.6/1kV TIC I

Cable Designation

- 0.6 / 1kV TIC I
- 0.6 / 1kV TIO I

Application

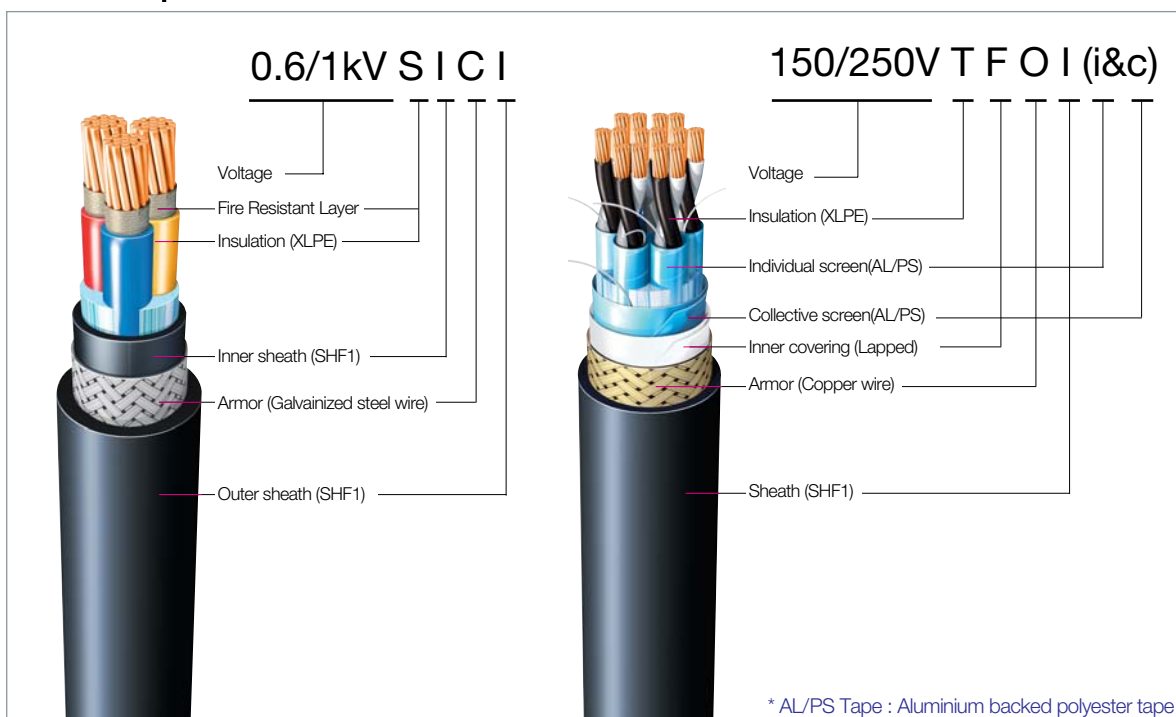
- This cable is designed for power, lighting & control circuits up to 0.6/1kV.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 353
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Example



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Aarmor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color : Black

Core Identification	No. of Cores	Method 1 (without ground core)	Method 2 (with ground core)
	1C	Black	-
2C	Red, Black	-	-
3C / 3G	Red, Yellow, Blue	-	Red, Black, Green/Yellow
4C / 4G	Red, Yellow, Blue, Black	-	Red, Yellow, Blue, Green/Yellow
5C / 5G	Black number on White insulation	-	Red, Yellow, Blue, Black, Green/Yellow
6 and over (6G and over)	Black number on White insulation	-	Black number on White insulation, Green/Yellow

Note) 1. The letter "G" means that the cable has the ground core.
2. The other color scheme may be applicable when purchaser required.

0.6/1kV TICI (0.6/1kV TIOI)

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	A
1	1.5	7 / 0.53	1.59	0.7	5.5	9.2	0.9	130	12.2	23
	2.5	7 / 0.67	2.01	0.7	5.9	9.6	0.9	150	7.56	40
	4	7 / 0.85	2.55	0.7	6.5	10.2	0.9	180	4.70	51
	6	7 / 1.04	3.12	0.7	7.0	10.7	0.9	200	3.11	52
	10	7 / 1.35	4.05	0.7	8.0	11.7	1.0	260	1.84	72
	16	7 / 1.70	5.10	0.7	9.2	12.9	1.0	340	1.16	96
	25	7 / 2.14	6.42	0.9	10.9	14.6	1.1	470	0.734	127
	35	7 / 2.52	7.56	0.9	12.3	16.0	1.1	590	0.529	157
	50	19 / 1.78	8.90	1.0	13.8	17.5	1.2	740	0.391	196
	70	19 / 2.14	10.70	1.1	16.0	19.7	1.3	990	0.270	242
	95	19 / 2.52	12.60	1.1	18.1	22.0	1.4	1,300	0.195	293
	120	37 / 2.03	14.21	1.2	20.1	24.0	1.5	1,590	0.154	339
	150	37 / 2.25	15.75	1.4	22.3	26.4	1.6	1,920	0.126	389
	185	37 / 2.52	17.64	1.6	24.5	28.8	1.7	2,340	0.100	444
	240	61 / 2.25	20.25	1.7	27.8	32.1	1.8	2,990	0.0762	522
300	61 / 2.52	22.68	1.8	30.6	35.6	1.9	3,760	0.0607	601	
2	1.5	7 / 0.53	1.59	0.7	8.9	12.6	1.0	220	12.2	20
	2.5	7 / 0.67	2.01	0.7	9.7	13.4	1.0	250	7.56	26
	4	7 / 0.85	2.55	0.7	10.9	14.6	1.1	310	4.70	34
	6	7 / 1.04	3.12	0.7	12.1	15.8	1.1	380	3.11	44
	10	7 / 1.35	4.05	0.7	14.3	18.0	1.2	510	1.84	61
	16	7 / 1.70	5.10	0.7	16.3	20.0	1.3	680	1.16	82
	25	7 / 2.14	6.42	0.9	20.1	24.0	1.5	980	0.734	108
	35	7 / 2.52	7.56	0.9	22.7	26.8	1.6	1,260	0.529	133
	50	19 / 1.78	8.90	1.0	25.9	30.2	1.7	1,620	0.391	167
	70	19 / 2.14	10.70	1.1	30.3	35.3	1.9	2,280	0.270	206
	95	19 / 2.52	12.60	1.1	34.3	39.5	2.1	2,970	0.195	249
	120	37 / 2.03	14.21	1.2	38.1	43.5	2.2	3,630	0.154	288
	150	37 / 2.25	15.75	1.4	42.5	48.1	2.4	4,410	0.126	331
	185	37 / 2.52	17.64	1.6	47.3	53.1	2.6	5,410	0.100	377
	240	61 / 2.25	20.25	1.7	53.5	59.7	2.9	6,920	0.0762	444
300	61 / 2.52	22.68	1.8	59.1	65.5	3.1	8,470	0.0607	511	
3	1.5	7 / 0.53	1.59	0.7	9.4	13.1	1.0	250	12.2	16
	2.5	7 / 0.67	2.01	0.7	10.3	14.0	1.1	290	7.56	21
	4	7 / 0.85	2.55	0.7	11.8	15.5	1.1	370	4.70	28
	6	7 / 1.04	3.12	0.7	12.8	16.5	1.2	450	3.11	36
	10	7 / 1.35	4.05	0.7	15.2	18.9	1.3	630	1.84	50
	16	7 / 1.70	5.10	0.7	17.5	21.4	1.4	870	1.16	67
	25	7 / 2.14	6.42	0.9	21.4	25.5	1.5	1,260	0.734	89
	35	7 / 2.52	7.56	0.9	24.2	28.3	1.6	1,630	0.529	110
	50	19 / 1.78	8.90	1.0	27.8	32.1	1.8	2,120	0.391	137
	70	19 / 2.14	10.70	1.1	32.3	37.5	2.0	2,990	0.270	169
	95	19 / 2.52	12.60	1.1	36.8	42.2	2.2	3,950	0.195	205
	120	37 / 2.03	14.21	1.2	41.1	46.7	2.4	4,880	0.154	237
	150	37 / 2.25	15.75	1.4	45.6	51.4	2.6	5,910	0.126	272
	185	37 / 2.52	17.64	1.6	50.8	56.8	2.8	7,280	0.100	311
	240	61 / 2.25	20.25	1.7	57.6	64.0	3.1	9,420	0.0762	365
300	61 / 2.52	22.68	1.8	63.6	70.2	3.3	11,560	0.0607	421	

Cable Type 0.6/1kV TICI (0.6/1kV TIOI)

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	A
4	1.5	7 / 0.53	1.59	0.7	10.2	13.9	1.1	280	12.2	16
	2.5	7 / 0.67	2.01	0.7	11.4	15.1	1.1	350	7.56	21
	4	7 / 0.85	2.55	0.7	12.8	16.5	1.2	440	4.70	28
	6	7 / 1.04	3.12	0.7	14.2	17.9	1.2	550	3.11	36
	10	7 / 1.35	4.05	0.7	16.9	20.8	1.3	780	1.84	50
	16	7 / 1.70	5.10	0.7	19.5	23.4	1.4	1,080	1.16	67
	25	7 / 2.14	6.42	0.9	23.8	27.9	1.6	1,580	0.734	89
	35	7 / 2.52	7.56	0.9	26.9	31.2	1.7	2,070	0.529	110
	50	19 / 1.78	8.90	1.0	30.9	35.9	1.9	2,770	0.391	137
	70	19 / 2.14	10.70	1.1	36.1	41.5	2.2	3,830	0.270	169
	95	19 / 2.52	12.60	1.1	41.1	46.7	2.4	5,060	0.195	205
	120	37 / 2.03	14.21	1.2	45.7	51.5	2.6	6,230	0.154	237
	150	37 / 2.25	15.75	1.4	50.9	56.9	2.8	7,590	0.126	272
	185	37 / 2.52	17.64	1.6	56.6	63.0	3.0	9,390	0.100	311
	240	61 / 2.25	20.25	1.7	64.2	71.0	3.3	12,100	0.0762	365
300	61 / 2.52	22.68	1.8	71.1	78.1	3.6	14,920	0.0607	421	
5	1.5	7 / 0.53	1.59	0.7	11.1	14.8	1.1	320	12.2	12
	2.5	7 / 0.67	2.01	0.7	12.3	16.0	1.1	370	7.56	16
	4	7 / 0.85	2.55	0.7	13.9	17.6	1.1	470	4.70	21
	6	7 / 1.04	3.12	0.7	15.4	19.1	1.2	600	3.11	28
	10	7 / 1.35	4.05	0.7	18.1	22.0	1.3	830	1.84	36
	16	7 / 1.70	5.10	0.7	21.1	25.0	1.4	1,150	1.16	46
	25	7 / 2.14	6.42	0.9	25.1	29.0	1.6	1,580	0.734	59
	35	7 / 2.52	7.56	0.9	29.1	33.0	1.7	2,100	0.529	74
	50	19 / 1.78	8.90	1.0	34.1	39.0	1.9	2,800	0.391	91
	70	19 / 2.14	10.70	1.1	40.1	45.0	2.2	3,750	0.270	111
	95	19 / 2.52	12.60	1.1	46.1	51.0	2.4	4,950	0.195	135
	120	37 / 2.03	14.21	1.2	51.1	57.0	2.6	6,400	0.154	162
	150	37 / 2.25	15.75	1.4	57.1	63.0	2.8	8,000	0.126	191
	185	37 / 2.52	17.64	1.6	64.1	71.0	3.0	9,850	0.100	222
	240	61 / 2.25	20.25	1.7	74.1	81.0	3.3	13,000	0.0762	271
300	61 / 2.52	22.68	1.8	84.1	91.0	3.6	16,500	0.0607	321	
6	1.5	7 / 0.53	1.59	0.7	12.0	15.7	1.1	360	12.2	10
	2.5	7 / 0.67	2.01	0.7	13.2	17.0	1.1	430	7.56	13
	4	7 / 0.85	2.55	0.7	14.8	18.6	1.1	560	4.70	17
	6	7 / 1.04	3.12	0.7	16.3	20.1	1.2	720	3.11	23
	10	7 / 1.35	4.05	0.7	19.0	23.0	1.3	1,000	1.84	30
	16	7 / 1.70	5.10	0.7	22.0	26.0	1.4	1,380	1.16	39
	25	7 / 2.14	6.42	0.9	26.0	30.0	1.6	1,880	0.734	50
	35	7 / 2.52	7.56	0.9	30.0	34.0	1.7	2,480	0.529	63
	50	19 / 1.78	8.90	1.0	36.0	41.0	1.9	3,300	0.391	79
	70	19 / 2.14	10.70	1.1	42.0	48.0	2.2	4,450	0.270	99
	95	19 / 2.52	12.60	1.1	48.0	55.0	2.4	5,900	0.195	121
	120	37 / 2.03	14.21	1.2	54.0	62.0	2.6	7,650	0.154	145
	150	37 / 2.25	15.75	1.4	60.0	69.0	2.8	9,700	0.126	171
	185	37 / 2.52	17.64	1.6	68.0	78.0	3.0	12,100	0.100	201
	240	61 / 2.25	20.25	1.7	80.0	92.0	3.3	15,500	0.0762	231
300	61 / 2.52	22.68	1.8	92.0	106.0	3.6	20,000	0.0607	271	
7	1.5	7 / 0.53	1.59	0.7	12.9	16.6	1.1	400	12.2	8
	2.5	7 / 0.67	2.01	0.7	14.1	17.9	1.1	480	7.56	11
	4	7 / 0.85	2.55	0.7	15.7	19.5	1.1	630	4.70	15
	6	7 / 1.04	3.12	0.7	17.2	21.0	1.2	810	3.11	20
	10	7 / 1.35	4.05	0.7	20.1	24.0	1.3	1,100	1.84	27
	16	7 / 1.70	5.10	0.7	23.1	27.0	1.4	1,500	1.16	36
	25	7 / 2.14	6.42	0.9	27.1	31.0	1.6	2,000	0.734	46
	35	7 / 2.52	7.56	0.9	31.1	35.0	1.7	2,600	0.529	57
	50	19 / 1.78	8.90	1.0	37.1	42.0	1.9	3,500	0.391	71
	70	19 / 2.14	10.70	1.1	43.1	49.0	2.2	4,700	0.270	89
	95	19 / 2.52	12.60	1.1	49.1	56.0	2.4	6,200	0.195	109
	120	37 / 2.03	14.21	1.2	55.1	63.0	2.6	8,000	0.154	131
	150	37 / 2.25	15.75	1.4	61.1	70.0	2.8	10,100	0.126	155
	185	37 / 2.52	17.64	1.6	69.1	79.0	3.0	12,500	0.100	181
	240	61 / 2.25	20.25	1.7	81.1	93.0	3.3	16,500	0.0762	211
300	61 / 2.52	22.68	1.8	93.1	107.0	3.6	21,500	0.0607	241	

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Normal
Fire Resistance
Power & Control Cable (Armored)

0.6/1kV SICI

Cable Designation

- 0.6/1kV SICI
- 0.6/1kV SIOI

Application

- This cable is designed for power, lighting & control circuits up to 0.6/1kV.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 353
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750 °C or 1000 °C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica / Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Aarmor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color : Black

Core Identification	No. of Cores	Method 1 (without ground core)	Method 2 (with ground core)
	1C	Black	-
2C	Red, Black	-	
3C / 3G	Red, Yellow, Blue	Red, Black, Green/Yellow	
4C / 4G	Red, Yellow, Blue, Black	Red, Yellow, Blue, Green/Yellow	
5C / 5G	Black number on White insulation	Red, Yellow, Blue, Black, Green/Yellow	
6 and over (6G and over)	Black number on White insulation	Black number on White insulation, Green/Yellow	

Note) 1. The letter "G" means that the cable has the ground core.
2. The other color scheme may be applicable when purchaser required.

Cable Type 0.6/1kV SICI (0.6/1kV SIOI)

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	A	
1	1.5	7 / 0.53	1.59	0.7	6.1	0.9	150	12.2	23	
	2.5	7 / 0.67	2.01	0.7	6.5	0.9	170	7.56	40	
	4	7 / 0.85	2.55	0.7	7.1	0.9	190	4.70	51	
	6	7 / 1.04	3.12	0.7	7.6	1.0	220	3.11	52	
	10	7 / 1.35	4.05	0.7	8.8	1.0	290	1.84	72	
	16	7 / 1.70	5.10	0.7	9.8	1.0	360	1.16	96	
	25	7 / 2.14	6.42	0.9	11.7	1.1	500	0.734	127	
	35	7 / 2.52	7.56	0.9	12.9	1.2	620	0.529	157	
	50	19 / 1.78	8.90	1.0	14.6	1.2	770	0.391	196	
	70	19 / 2.14	10.70	1.1	16.8	1.3	1,040	0.270	242	
	95	19 / 2.52	12.60	1.1	18.7	1.4	1,330	0.195	293	
	120	37 / 2.03	14.21	1.2	20.7	1.5	1,630	0.154	339	
150	37 / 2.25	15.75	1.4	22.9	1.6	1,960	0.126	389		
185	37 / 2.52	17.64	1.6	25.3	1.7	2,400	0.100	444		
240	61 / 2.25	20.25	1.7	28.4	1.8	3,030	0.0762	522		
300	61 / 2.52	22.68	1.8	31.2	1.9	3,800	0.0607	601		
2	1.5	7 / 0.53	1.59	0.7	10.1	1.1	250	12.2	20	
	2.5	7 / 0.67	2.01	0.7	10.9	1.1	290	7.56	26	
	4	7 / 0.85	2.55	0.7	12.3	1.1	350	4.70	34	
	6	7 / 1.04	3.12	0.7	13.3	1.2	420	3.11	44	
	10	7 / 1.35	4.05	0.7	15.5	1.3	560	1.84	61	
	16	7 / 1.70	5.10	0.7	17.7	1.4	740	1.16	82	
	25	7 / 2.14	6.42	0.9	21.3	1.5	1,050	0.734	108	
	35	7 / 2.52	7.56	0.9	23.9	1.6	1,320	0.529	133	
	50	19 / 1.78	8.90	1.0	27.1	1.8	1,680	0.391	167	
	70	19 / 2.14	10.70	1.1	31.5	2.0	2,360	0.270	206	
	95	19 / 2.52	12.60	1.1	35.7	2.1	3,070	0.195	249	
	120	37 / 2.03	14.21	1.2	39.5	2.3	3,740	0.154	288	
150	37 / 2.25	15.75	1.4	43.9	2.5	4,530	0.126	331		
185	37 / 2.52	17.64	1.6	48.5	2.7	5,540	0.100	377		
240	61 / 2.25	20.25	1.7	54.9	2.9	7,070	0.0762	444		
300	61 / 2.52	22.68	1.8	60.5	3.2	8,660	0.0607	511		
3	1.5	7 / 0.53	1.59	0.7	10.7	1.1	280	12.2	16	
	2.5	7 / 0.67	2.01	0.7	11.8	1.1	340	7.56	21	
	4	7 / 0.85	2.55	0.7	13.0	1.2	410	4.70	28	
	6	7 / 1.04	3.12	0.7	14.3	1.2	500	3.11	36	
	10	7 / 1.35	4.05	0.7	16.5	1.3	690	1.84	50	
	16	7 / 1.70	5.10	0.7	18.8	1.4	920	1.16	67	
	25	7 / 2.14	6.42	0.9	22.9	1.6	1,340	0.734	89	
	35	7 / 2.52	7.56	0.9	25.7	1.7	1,730	0.529	110	
	50	19 / 1.78	8.90	1.0	29.1	1.8	2,210	0.391	137	
	70	19 / 2.14	10.70	1.1	33.8	2.1	3,100	0.270	169	
	95	19 / 2.52	12.60	1.1	38.1	2.2	4,050	0.195	205	
	120	37 / 2.03	14.21	1.2	42.4	2.4	4,990	0.154	237	
150	37 / 2.25	15.75	1.4	47.1	2.6	6,060	0.126	272		
185	37 / 2.52	17.64	1.6	52.2	2.8	7,460	0.100	311		
240	61 / 2.25	20.25	1.7	58.9	3.1	9,520	0.0762	365		
300	61 / 2.52	22.68	1.8	64.9	3.4	11,710	0.0607	421		

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 0.6/1kV SICI (0.6/1kV SIOI)

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	A
4	1.5	7 / 0.53	1.59	0.7	11.9	15.6	1.1	330	12.2	16
	2.5	7 / 0.67	2.01	0.7	12.8	16.5	1.2	390	7.56	21
	4	7 / 0.85	2.55	0.7	14.5	18.2	1.2	500	4.70	28
	6	7 / 1.04	3.12	0.7	15.7	19.4	1.3	600	3.11	36
	10	7 / 1.35	4.05	0.7	18.3	22.2	1.4	840	1.84	50
	16	7 / 1.70	5.10	0.7	20.9	25.0	1.5	1,160	1.16	67
	25	7 / 2.14	6.42	0.9	25.4	29.7	1.7	1,690	0.734	89
	35	7 / 2.52	7.56	0.9	28.5	33.0	1.8	2,180	0.529	110
	50	19 / 1.78	8.90	1.0	32.3	37.5	2.0	2,890	0.391	137
	70	19 / 2.14	10.70	1.1	37.6	43.0	2.2	3,940	0.270	169
	95	19 / 2.52	12.60	1.1	42.6	48.2	2.4	5,190	0.195	205
	120	37 / 2.03	14.21	1.2	47.3	53.1	2.6	6,400	0.154	237
150	37 / 2.25	15.75	1.4	52.5	58.7	2.8	7,800	0.126	272	
185	37 / 2.52	17.64	1.6	58.2	64.6	3.1	9,590	0.100	311	
240	61 / 2.25	20.25	1.7	65.8	72.6	3.4	12,320	0.0762	365	
300	61 / 2.52	22.68	1.8	72.5	79.7	3.7	15,160	0.0607	421	
5	7 / 0.53	1.59	0.7	13.0	16.7	1.2	380		12	
6	7 / 0.53	1.59	0.7	14.3	18.0	1.2	440		12	
7	7 / 0.53	1.59	0.7	14.3	18.0	1.2	460		11	
8	7 / 0.53	1.59	0.7	15.5	19.2	1.3	510		11	
9	7 / 0.53	1.59	0.7	16.8	20.7	1.3	580		10	
10	7 / 0.53	1.59	0.7	18.3	22.2	1.4	650		10	
12	7 / 0.53	1.59	0.7	18.9	22.8	1.4	710		9	
14	7 / 0.53	1.59	0.7	20.1	24.0	1.5	790		9	
15	7 / 0.53	1.59	0.7	20.6	24.7	1.5	830	12.2	9	
16	7 / 0.53	1.59	0.7	21.2	25.3	1.5	870		8	
19	7 / 0.53	1.59	0.7	22.5	26.6	1.6	980		8	
20	7 / 0.53	1.59	0.7	23.2	27.3	1.6	1,030		8	
24	7 / 0.53	1.59	0.7	26.5	30.8	1.7	1,250		7	
27	7 / 0.53	1.59	0.7	27.1	31.4	1.8	1,330		7	
30	7 / 0.53	1.59	0.7	28.3	32.6	1.8	1,440		7	
37	7 / 0.53	1.59	0.7	30.7	35.7	1.9	1,780		7	
5	7 / 0.67	2.01	0.7	14.2	17.9	1.2	460		17	
6	7 / 0.67	2.01	0.7	15.5	19.2	1.3	520		17	
7	7 / 0.67	2.01	0.7	15.5	19.2	1.3	550		15	
8	7 / 0.67	2.01	0.7	17.0	20.9	1.3	630		15	
9	7 / 0.67	2.01	0.7	18.3	22.2	1.4	700		14	
10	7 / 0.67	2.01	0.7	20.1	24.0	1.5	790		13	
12	7 / 0.67	2.01	0.7	20.8	24.9	1.5	880		12	
14	7 / 0.67	2.01	0.7	21.8	25.9	1.5	970		12	
15	7 / 0.67	2.01	0.7	22.6	26.7	1.6	1,030	7.56	11	
16	7 / 0.67	2.01	0.7	23.2	27.3	1.6	1,080		11	
19	7 / 0.67	2.01	0.7	24.5	28.8	1.7	1,220		11	
20	7 / 0.67	2.01	0.7	25.5	29.8	1.7	1,290		10	
24	7 / 0.67	2.01	0.7	29.1	33.6	1.8	1,570		10	
27	7 / 0.67	2.01	0.7	29.8	34.3	1.9	1,680		9	
30	7 / 0.67	2.01	0.7	31.0	36.0	1.9	1,900		9	
37	7 / 0.67	2.01	0.7	33.7	38.9	2.1	2,250		9	



Normal

Flame Retardant Telephone & Instrument Cable (Non Screen)

150/250V TICl

Cable Designation

- 150/250V TICl
- 150/250V TIOI

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Armor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

\ Cable Type 150/250V TICI (150/250V TIOI)

\ Cable Type 150/250V TICI (150/250V TIOI)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1P		7/0.37	1.11	0.5	6.9	10.6	0.9	160			
2P		7/0.37	1.11	0.5	8.1	11.8	1.0	200			
3P		7/0.37	1.11	0.5	11.4	15.1	1.1	290			
4P		7/0.37	1.11	0.5	12.1	15.8	1.1	330			
5P		7/0.37	1.11	0.5	13.5	17.2	1.2	380			
6P		7/0.37	1.11	0.5	14.6	18.3	1.2	430			
7P		7/0.37	1.11	0.5	14.6	18.3	1.2	450			
8P	0.75	7/0.37	1.11	0.5	15.5	19.2	1.3	490	26.0	100	0.72
10P		7/0.37	1.11	0.5	17.6	21.5	1.4	600			
12P		7/0.37	1.11	0.5	18.3	22.2	1.4	650			
14P		7/0.37	1.11	0.5	18.9	22.8	1.4	700			
16P		7/0.37	1.11	0.5	20.5	24.6	1.5	800			
19P		7/0.37	1.11	0.5	21.9	26.0	1.5	910			
20P	7/0.37	1.11	0.5	21.9	26.0	1.5	910				
24P	7/0.37	1.11	0.5	25.3	29.6	1.7	1,130				
30P	7/0.37	1.11	0.5	27.6	31.9	1.8	1,330				
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1P		7/0.43	1.29	0.5	7.3	11.0	0.9	170			
2P		7/0.43	1.29	0.5	8.7	12.4	1.0	220			
3P		7/0.43	1.29	0.5	12.2	15.9	1.1	330			
4P		7/0.43	1.29	0.5	12.9	16.6	1.2	370			
5P		7/0.43	1.29	0.5	14.6	18.3	1.2	440			
6P		7/0.43	1.29	0.5	15.6	19.3	1.3	490			
7P		7/0.43	1.29	0.5	15.6	19.3	1.3	510			
8P	1.0	7/0.43	1.29	0.5	16.8	20.7	1.3	580	19.2	110	0.72
10P		7/0.43	1.29	0.5	18.8	22.7	1.4	680			
12P		7/0.43	1.29	0.5	19.8	23.7	1.4	760			
14P		7/0.43	1.29	0.5	20.5	24.6	1.5	840			
16P		7/0.43	1.29	0.5	22.2	26.3	1.6	950			
19P		7/0.43	1.29	0.5	23.7	27.8	1.6	1,080			
20P	7/0.43	1.29	0.5	23.7	27.8	1.6	1,080				
24P	7/0.43	1.29	0.5	27.2	31.5	1.8	1,330				
30P	7/0.43	1.29	0.5	29.6	34.1	1.9	1,580				
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1P		7/0.53	1.59	0.6	8.3	12.0	1.0	200			
2P		7/0.53	1.59	0.6	9.9	13.6	1.0	270			
3P		7/0.53	1.59	0.6	14.2	17.9	1.2	420			
4P		7/0.53	1.59	0.6	15.1	18.8	1.3	470			
5P		7/0.53	1.59	0.6	17.1	21.0	1.3	580			
6P		7/0.53	1.59	0.6	18.3	22.2	1.4	650			
7P		7/0.53	1.59	0.6	18.3	22.2	1.4	680			
8P	1.5	7/0.53	1.59	0.6	19.7	23.6	1.4	760	12.8	120	0.66
10P		7/0.53	1.59	0.6	22.3	26.4	1.6	930			
12P		7/0.53	1.59	0.6	23.2	27.3	1.6	1,030			
14P		7/0.53	1.59	0.6	24.1	28.2	1.6	1,120			
16P		7/0.53	1.59	0.6	26.1	30.4	1.7	1,280			
19P		7/0.53	1.59	0.6	28.1	32.4	1.8	1,460			
20P	7/0.53	1.59	0.6	28.1	32.4	1.8	1,490				
24P	7/0.53	1.59	0.6	32.2	37.4	2.0	1,930				
30P	7/0.53	1.59	0.6	35.1	40.3	2.1	2,270				
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1P		7/0.67	2.01	0.6	9.3	13.0	1.0	240			
2P		7/0.67	2.01	0.6	10.9	14.6	1.1	330			
3P		7/0.67	2.01	0.6	15.7	19.4	1.3	510			
4P		7/0.67	2.01	0.6	16.9	20.8	1.3	610			
5P		7/0.67	2.01	0.6	18.9	22.8	1.4	720			
6P		7/0.67	2.01	0.6	20.5	24.6	1.5	840			
7P		7/0.67	2.01	0.6	20.5	24.6	1.5	880			
8P	2.5	7/0.67	2.01	0.6	21.9	26.0	1.5	980	7.86	135	0.65
10P		7/0.67	2.01	0.6	25.0	29.3	1.7	1,220			
12P		7/0.67	2.01	0.6	26.0	30.3	1.7	1,350			
14P		7/0.67	2.01	0.6	27.0	31.3	1.8	1,490			
16P		7/0.67	2.01	0.6	29.3	33.8	1.9	1,700			
19P		7/0.67	2.01	0.6	31.5	36.5	2.0	2,030			
20P	7/0.67	2.01	0.6	31.5	36.5	2.0	2,080				
24P	7/0.67	2.01	0.6	36.3	41.7	2.2	2,570				
30P	7/0.67	2.01	0.6	39.6	45.0	2.3	3,050				

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1T		7/0.37	1.11	0.5	7.3	11.0	0.9	170			
2T		7/0.37	1.11	0.5	11.6	15.3	1.1	300			
3T		7/0.37	1.11	0.5	12.3	16.0	1.1	340			
4T		7/0.37	1.11	0.5	13.5	17.2	1.2	400			
5T		7/0.37	1.11	0.5	15.1	18.8	1.3	470			
6T		7/0.37	1.11	0.5	17.1	21.0	1.3	560			
7T		7/0.37	1.11	0.5	17.1	21.0	1.3	590			
8T	0.75	7/0.37	1.11	0.5	18.3	22.2	1.4	650	26.0	100	0.72
10T		7/0.37	1.11	0.5	20.8	24.9	1.5	800			
12T		7/0.37	1.11	0.5	21.9	26.0	1.5	880			
14T		7/0.37	1.11	0.5	23.0	27.1	1.6	980			
16T		7/0.37	1.11	0.5	24.4	28.5	1.6	1,080			
19T		7/0.37	1.11	0.5	25.9	30.2	1.7	1,220			
20T	7/0.37	1.11	0.5	26.9	31.2	1.7	1,290				
24T	7/0.37	1.11	0.5	29.4	33.9	1.9	1,510				
30T	7/0.37	1.11	0.5	32.6	37.8	2.0	1,910				
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1T		7/0.43	1.29	0.5	7.7	11.4	1.0	190			
2T		7/0.43	1.29	0.5	12.4	16.1	1.1	340			
3T		7/0.43	1.29	0.5	13.2	16.9	1.2	390			
4T		7/0.43	1.29	0.5	14.6	18.3	1.2	460			
5T		7/0.43	1.29	0.5	16.1	19.8	1.3	530			
6T		7/0.43	1.29	0.5	18.3	22.2	1.4	650			
7T		7/0.43	1.29	0.5	18.3	22.2	1.4	680			
8T	1.0	7/0.43	1.29	0.5	19.8	23.7	1.4	760	19.2	110	0.72
10T		7/0.43	1.29	0.5	22.5	26.6	1.6	940			
12T		7/0.43	1.29	0.5	23.7	27.8	1.6	1,040			
14T		7/0.43	1.29	0.5	24.9	29.2	1.7	1,170			
16T		7/0.43	1.29	0.5	26.4	30.7	1.7	1,290			
19T		7/0.43	1.29	0.5	28.0	32.3	1.8	1,460			
20T	7/0.43	1.29	0.5	29.1	33.6	1.8	1,550				
24T	7/0.43	1.29	0.5	31.8	36.8	2.0	1,890				
30T	7/0.43	1.29	0.5	35.3	40.5	2.1	2,280				
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1T		7/0.53	1.59	0.6	9.0	12.7	1.0	230			
2T		7/0.53	1.59	0.6	14.5	18.2	1.2	430			
3T		7/0.53	1.59	0.6	15.4	19.1	1.3	500			
4T		7/0.53	1.59	0.6	17.1	21.0	1.3	610			
5T		7/0.53	1.59	0.6	18.9	22.8	1.4	710			
6T		7/0.53	1.59	0.6	21.5	25.6	1.5	870			
7T		7/0.53	1.59	0.6	21.5	25.6	1.5	910			
8T	1.5	7/0.53	1.59	0.6	23.2	27.3	1.6	1,030	12.8	120	0.66
10T		7/0.53	1.59	0.6	26.4	30.7	1.7	1,260			
12T		7/0.53	1.59	0.6	28.1	32.4	1.8	1,430			
14T		7/0.53	1.59	0.6	29.3	33.8	1.9	1,590			
16T		7/0.53	1.59	0.6	31.3	36.3	2.0	1,860			
19T		7/0.53	1.59	0.6	33.2	38.4	2.0	2,120			
20T	7/0.53	1.59	0.6	34.5	39.7	2.1	2,240				
24T	7/0.53	1.59	0.6	37.7	43.1	2.2	2,620				
30T	7/0.53	1.59	0.6	42.0	47.6	2.4	3,190				
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1T		7/0.67	2.01	0.6	9.8	13.5	1.0	280			
2T		7/0.67	2.01	0.6	16.0	19.7	1.3	520			
3T		7/0.67	2.01	0.6	17.2	21.1	1.3	640			
4T		7/0.67	2.01	0.6	18.9	22.8	1.4	770			
5T		7/0.67	2.01	0.6	21.2	25.3	1.5	930			
6T		7/0.67	2.01	0.6	24.1	28.2	1.6	1,120			
7T		7/0.67	2.01	0.6	24.1	28.2	1.6	1,190			
8T	2.5	7/0.67	2.01	0.6	26.0	30.3	1.7	1,350	7.86	135	0.65
10T		7/0.67	2.01	0.6	29.6	34.1	1.9	1,670			
12T		7/0.67	2.01	0.6	31.5	36.5	2.0	1,990			
14T		7/0.67	2.01	0.6	33.1	38.3	2.0	2,230			
16T		7/0.67	2.01	0.6	35.1	40.3	2.1	2,480			
19T		7/0.67	2.01	0.6	37.2	42.6	2.2	2,830			
20T	7/0.67	2.01	0.6	38.9	44.3	2.3	3,010				
24T	7/0.67	2.01	0.6	42.5	48.1	2.4	3,540				
30T	7/0.67	2.01	0.6	47.3	53.1	2.6	4,320				

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight



Normal
Flame Retardant
Telephone & Instrument Cable
(Individual Screen)

150/250V TICI(i)

Cable Designation

- 150/250V TICI(i)
- 150/250V TIO(i)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Armor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- 1) Each pair/triad
- Pairs : Black, White
- Triads : Black, White, Red

Core Identification
2) Multi pair/triad cables
Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.

3) The other color scheme may be applicable when purchaser required.

Cable Type 150/250V TICI(i) (150/250V TIO(i))

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	7.2	10.9	0.9	170			
2 P		7 / 0.37	1.11	0.5	10.8	14.5	1.1	280			
3 P		7 / 0.37	1.11	0.5	11.8	15.5	1.1	330			
4 P		7 / 0.37	1.11	0.5	12.5	16.2	1.1	370			
5 P		7 / 0.37	1.11	0.5	14.2	17.9	1.2	440			
6 P		7 / 0.37	1.11	0.5	15.2	18.9	1.3	500			
7 P		7 / 0.37	1.11	0.5	15.2	18.9	1.3	520			
8 P	0.75	7 / 0.37	1.11	0.5	16.1	19.8	1.3	570	26.0	100	0.72
10 P		7 / 0.37	1.11	0.5	18.3	22.2	1.4	700			
12 P		7 / 0.37	1.11	0.5	19.0	22.9	1.4	770			
14 P		7 / 0.37	1.11	0.5	20.0	23.9	1.5	850			
16 P		7 / 0.37	1.11	0.5	21.4	25.5	1.5	960			
19 P		7 / 0.37	1.11	0.5	23.1	27.2	1.6	1,100			
20 P		7 / 0.37	1.11	0.5	23.1	27.2	1.6	1,120			
24 P		7 / 0.37	1.11	0.5	26.5	30.8	1.7	1,370			
30 P		7 / 0.37	1.11	0.5	28.9	33.4	1.8	1,630			
1 P		7 / 0.43	1.29	0.5	7.6	11.3	1.0	190			
2 P		7 / 0.43	1.29	0.5	11.7	15.4	1.1	320			
3 P		7 / 0.43	1.29	0.5	12.5	16.2	1.1	370			
4 P		7 / 0.43	1.29	0.5	13.3	17.0	1.2	420			
5 P		7 / 0.43	1.29	0.5	15.1	18.8	1.3	510			
6 P		7 / 0.43	1.29	0.5	16.2	19.9	1.3	570			
7 P		7 / 0.43	1.29	0.5	16.2	19.9	1.3	600			
8 P	1.0	7 / 0.43	1.29	0.5	17.4	21.3	1.4	680	19.2	110	0.69
10 P		7 / 0.43	1.29	0.5	19.7	23.6	1.4	820			
12 P		7 / 0.43	1.29	0.5	20.5	24.6	1.5	920			
14 P		7 / 0.43	1.29	0.5	21.3	25.4	1.5	1,010			
16 P		7 / 0.43	1.29	0.5	23.1	27.2	1.6	1,140			
19 P		7 / 0.43	1.29	0.5	24.9	29.2	1.7	1,320			
20 P		7 / 0.43	1.29	0.5	24.9	29.2	1.7	1,350			
24 P		7 / 0.43	1.29	0.5	28.5	33.0	1.8	1,650			
30 P		7 / 0.43	1.29	0.5	31.1	36.1	1.9	2,040			
1 P		7 / 0.53	1.59	0.6	8.8	12.5	1.0	230			
2 P		7 / 0.53	1.59	0.6	13.4	17.1	1.2	390			
3 P		7 / 0.53	1.59	0.6	14.6	18.3	1.2	460			
4 P		7 / 0.53	1.59	0.6	15.5	19.2	1.3	530			
5 P		7 / 0.53	1.59	0.6	17.6	21.5	1.4	650			
6 P		7 / 0.53	1.59	0.6	18.9	22.8	1.4	740			
7 P		7 / 0.53	1.59	0.6	18.9	22.8	1.4	780			
8 P	1.5	7 / 0.53	1.59	0.6	20.3	24.2	1.5	870	12.8	120	0.66
10 P		7 / 0.53	1.59	0.6	23.0	27.1	1.6	1,070			
12 P		7 / 0.53	1.59	0.6	24.0	28.1	1.6	1,190			
14 P		7 / 0.53	1.59	0.6	25.1	29.4	1.7	1,330			
16 P		7 / 0.53	1.59	0.6	27.0	31.3	1.8	1,500			
19 P		7 / 0.53	1.59	0.6	29.1	33.6	1.8	1,730			
20 P		7 / 0.53	1.59	0.6	29.1	33.6	1.8	1,770			
24 P		7 / 0.53	1.59	0.6	33.6	38.8	2.1	2,270			
30 P		7 / 0.53	1.59	0.6	36.6	42.0	2.2	2,700			
1 P		7 / 0.67	2.01	0.6	9.6	13.3	1.0	260			
2 P		7 / 0.67	2.01	0.6	15.0	18.7	1.2	470			
3 P		7 / 0.67	2.01	0.6	16.0	19.7	1.3	560			
4 P		7 / 0.67	2.01	0.6	17.3	21.2	1.3	680			
5 P		7 / 0.67	2.01	0.6	19.6	23.5	1.4	820			
6 P		7 / 0.67	2.01	0.6	21.1	25.2	1.5	940			
7 P		7 / 0.67	2.01	0.6	21.1	25.2	1.5	1,000			
8 P	2.5	7 / 0.67	2.01	0.6	22.7	26.8	1.6	1,130	7.86	135	0.65
10 P		7 / 0.67	2.01	0.6	25.7	30.0	1.7	1,390			
12 P		7 / 0.67	2.01	0.6	26.8	31.1	1.7	1,550			
14 P		7 / 0.67	2.01	0.6	28.0	32.3	1.8	1,730			
16 P		7 / 0.67	2.01	0.6	30.4	35.4	1.9	2,060			
19 P		7 / 0.67	2.01	0.6	32.5	37.7	2.0	2,360			
20 P		7 / 0.67	2.01	0.6	32.5	37.7	2.0	2,420			
24 P		7 / 0.67	2.01	0.6	37.5	42.9	2.2	2,970			
30 P		7 / 0.67	2.01	0.6	41.1	46.7	2.4	3,580			

Cable Type 150/250V TICI(i) (150/250V TIOI(i))

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1T	7/0.37	1.11	0.5	7.6	11.3	1.0		190			
2T	7/0.37	1.11	0.5	12.0	15.7	1.1		320			
3T	7/0.37	1.11	0.5	12.7	16.4	1.2		370			
4T	7/0.37	1.11	0.5	14.1	17.8	1.2		440			
5T	7/0.37	1.11	0.5	15.6	19.3	1.3		520			
6T	7/0.37	1.11	0.5	17.7	21.6	1.4		620			
7T	7/0.37	1.11	0.5	17.7	21.6	1.4		650			
8T	7/0.37	1.11	0.5	19.0	22.9	1.4		730	26.0	100	0.72
10T	7/0.37	1.11	0.5	21.6	25.7	1.5		890			
12T	7/0.37	1.11	0.5	23.0	27.1	1.6		1,010			
14T	7/0.37	1.11	0.5	24.0	28.1	1.6		1,110			
16T	7/0.37	1.11	0.5	25.7	30.0	1.7		1,250			
19T	7/0.37	1.11	0.5	27.0	31.3	1.8		1,390			
20T	7/0.37	1.11	0.5	28.3	32.6	1.8		1,490			
24T	7/0.37	1.11	0.5	30.9	35.9	1.9		1,820			
30T	7/0.37	1.11	0.5	34.3	39.5	2.1		2,200			
1T	7/0.43	1.29	0.5	8.0	11.7	1.0		200			
2T	7/0.43	1.29	0.5	12.7	16.4	1.2		360			
3T	7/0.43	1.29	0.5	13.5	17.2	1.2		420			
4T	7/0.43	1.29	0.5	15.0	18.7	1.2		510			
5T	7/0.43	1.29	0.5	16.8	20.7	1.3		610			
6T	7/0.43	1.29	0.5	18.9	22.8	1.4		720			
7T	7/0.43	1.29	0.5	18.9	22.8	1.4		760			
8T	7/0.43	1.29	0.5	20.5	24.6	1.5		870			
10T	7/0.43	1.29	0.5	23.3	27.4	1.6		1,060	19.2	110	0.69
12T	7/0.43	1.29	0.5	24.6	28.9	1.7		1,200			
14T	7/0.43	1.29	0.5	25.9	30.2	1.7		1,330			
16T	7/0.43	1.29	0.5	27.7	32.0	1.8		1,490			
19T	7/0.43	1.29	0.5	29.1	33.6	1.8		1,690			
20T	7/0.43	1.29	0.5	30.5	35.5	1.9		1,880			
24T	7/0.43	1.29	0.5	33.3	38.5	2.0		2,200			
30T	7/0.43	1.29	0.5	37.0	42.4	2.2		2,660			
1T	7/0.53	1.59	0.6	9.3	13.0	1.0		250			
2T	7/0.53	1.59	0.6	14.8	18.5	1.2		450			
3T	7/0.53	1.59	0.6	15.8	19.5	1.3		540			
4T	7/0.53	1.59	0.6	17.5	21.4	1.4		660			
5T	7/0.53	1.59	0.6	19.6	23.5	1.4		790			
6T	7/0.53	1.59	0.6	22.3	26.4	1.6		950			
7T	7/0.53	1.59	0.6	22.3	26.4	1.6		1,010			
8T	7/0.53	1.59	0.6	23.9	28.0	1.6		1,120			
10T	7/0.53	1.59	0.6	27.2	31.5	1.8		1,390	12.8	120	0.66
12T	7/0.53	1.59	0.6	29.0	33.5	1.8		1,600			
14T	7/0.53	1.59	0.6	30.5	35.5	1.9		1,860			
16T	7/0.53	1.59	0.6	32.4	37.6	2.0		2,080			
19T	7/0.53	1.59	0.6	34.3	39.5	2.1		2,350			
20T	7/0.53	1.59	0.6	35.9	41.1	2.1		2,500			
24T	7/0.53	1.59	0.6	39.2	44.6	2.3		2,930			
30T	7/0.53	1.59	0.6	43.5	49.1	2.5		3,550			
1T	7/0.67	2.01	0.6	10.1	13.8	1.1		300			
2T	7/0.67	2.01	0.6	16.3	20.0	1.3		550			
3T	7/0.67	2.01	0.6	17.6	21.5	1.4		690			
4T	7/0.67	2.01	0.6	19.6	23.5	1.4		840			
5T	7/0.67	2.01	0.6	21.7	25.8	1.5		1,010			
6T	7/0.67	2.01	0.6	24.9	29.2	1.7		1,240			
7T	7/0.67	2.01	0.6	24.9	29.2	1.7		1,320			
8T	7/0.67	2.01	0.6	26.7	31.0	1.7		1,470			
10T	7/0.67	2.01	0.6	30.6	35.6	1.9		1,910	7.86	135	0.65
12T	7/0.67	2.01	0.6	32.4	37.6	2.0		2,180			
14T	7/0.67	2.01	0.6	34.0	39.2	2.1		2,440			
16T	7/0.67	2.01	0.6	36.4	41.8	2.2		2,750			
19T	7/0.67	2.01	0.6	38.5	43.9	2.3		3,130			
20T	7/0.67	2.01	0.6	40.1	45.7	2.3		3,320			
24T	7/0.67	2.01	0.6	44.0	49.8	2.5		3,930			
30T	7/0.67	2.01	0.6	48.8	54.8	2.7		4,770			



Normal

Flame Retardant Telephone & Instrument Cable (Collective Screen)

150/250V TICI(c)

Cable Designation

- 150/250V TICI(c)
- 150/250V TIOI(c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Armor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 150/250V TICI(c) (150/250V TIOI(c))

Cable Type 150/250V TICI(c) (150/250V TIOI(c))

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1 P		7 / 0.37	1.11	0.5	7.1	10.8	0.9	170			
2 P		7 / 0.37	1.11	0.5	8.1	11.8	1.0	210			
3 P		7 / 0.37	1.11	0.5	11.4	15.1	1.1	310			
4 P		7 / 0.37	1.11	0.5	12.1	15.8	1.1	340			
5 P		7 / 0.37	1.11	0.5	13.5	17.2	1.2	400			
6 P		7 / 0.37	1.11	0.5	14.6	18.3	1.2	450			
7 P		7 / 0.37	1.11	0.5	14.6	18.3	1.2	460			
8 P	0.75	7 / 0.37	1.11	0.5	15.5	19.2	1.3	500	26.0	95	0.72
10 P		7 / 0.37	1.11	0.5	17.6	21.5	1.4	610			
12 P		7 / 0.37	1.11	0.5	18.3	22.2	1.4	670			
14 P		7 / 0.37	1.11	0.5	18.9	22.8	1.4	720			
16 P		7 / 0.37	1.11	0.5	20.5	24.6	1.5	820			
19 P		7 / 0.37	1.11	0.5	21.9	26.0	1.5	920			
20 P		7 / 0.37	1.11	0.5	21.9	26.0	1.5	930			
24 P		7 / 0.37	1.11	0.5	25.3	29.6	1.7	1,150			
30 P		7 / 0.37	1.11	0.5	27.6	31.9	1.8	1,350			
1 P		7 / 0.43	1.29	0.5	7.5	11.2	0.9	180			
2 P		7 / 0.43	1.29	0.5	8.7	12.4	1.0	230			
3 P		7 / 0.43	1.29	0.5	12.2	15.9	1.1	350			
4 P		7 / 0.43	1.29	0.5	12.9	16.6	1.2	380			
5 P		7 / 0.43	1.29	0.5	14.6	18.3	1.2	460			
6 P		7 / 0.43	1.29	0.5	15.6	19.3	1.3	510			
7 P		7 / 0.43	1.29	0.5	15.6	19.3	1.3	530			
8 P	1.0	7 / 0.43	1.29	0.5	16.8	20.7	1.3	600	19.2	100	0.69
10 P		7 / 0.43	1.29	0.5	18.8	22.7	1.4	700			
12 P		7 / 0.43	1.29	0.5	19.8	23.7	1.4	780			
14 P		7 / 0.43	1.29	0.5	20.5	24.6	1.5	860			
16 P		7 / 0.43	1.29	0.5	22.2	26.3	1.6	970			
19 P		7 / 0.43	1.29	0.5	23.7	27.8	1.6	1,090			
20 P		7 / 0.43	1.29	0.5	23.7	27.8	1.6	1,110			
24 P		7 / 0.43	1.29	0.5	27.2	31.5	1.8	1,350			
30 P		7 / 0.43	1.29	0.5	29.6	34.1	1.9	1,600			
1 P		7 / 0.53	1.59	0.6	8.7	12.4	1.0	220			
2 P		7 / 0.53	1.59	0.6	9.9	13.6	1.0	280			
3 P		7 / 0.53	1.59	0.6	14.2	17.9	1.2	430			
4 P		7 / 0.53	1.59	0.6	15.1	18.8	1.3	490			
5 P		7 / 0.53	1.59	0.6	17.1	21.0	1.3	600			
6 P		7 / 0.53	1.59	0.6	18.3	22.2	1.4	670			
7 P		7 / 0.53	1.59	0.6	18.3	22.2	1.4	700			
8 P	1.5	7 / 0.53	1.59	0.6	19.7	23.6	1.4	780	12.8	110	0.66
10 P		7 / 0.53	1.59	0.6	22.3	26.4	1.6	950			
12 P		7 / 0.53	1.59	0.6	23.2	27.3	1.6	1,050			
14 P		7 / 0.53	1.59	0.6	24.1	28.2	1.6	1,140			
16 P		7 / 0.53	1.59	0.6	26.1	30.4	1.7	1,310			
19 P		7 / 0.53	1.59	0.6	28.1	32.4	1.8	1,490			
20 P		7 / 0.53	1.59	0.6	28.1	32.4	1.8	1,520			
24 P		7 / 0.53	1.59	0.6	32.2	37.4	2.0	1,960			
30 P		7 / 0.53	1.59	0.6	35.1	40.3	2.1	2,300			
1 P		7 / 0.67	2.01	0.6	9.5	13.2	1.0	260			
2 P		7 / 0.67	2.01	0.6	10.9	14.6	1.1	340			
3 P		7 / 0.67	2.01	0.6	15.7	19.4	1.3	530			
4 P		7 / 0.67	2.01	0.6	16.9	20.8	1.3	630			
5 P		7 / 0.67	2.01	0.6	18.9	22.8	1.4	740			
6 P		7 / 0.67	2.01	0.6	20.5	24.6	1.5	860			
7 P		7 / 0.67	2.01	0.6	20.5	24.6	1.5	910			
8 P	2.5	7 / 0.67	2.01	0.6	21.9	26.0	1.5	1,010	7.86	130	0.65
10 P		7 / 0.67	2.01	0.6	25.0	29.3	1.7	1,250			
12 P		7 / 0.67	2.01	0.6	26.0	30.3	1.7	1,380			
14 P		7 / 0.67	2.01	0.6	27.0	31.3	1.8	1,520			
16 P		7 / 0.67	2.01	0.6	29.3	33.8	1.9	1,730			
19 P		7 / 0.67	2.01	0.6	31.5	36.5	2.0	2,070			
20 P		7 / 0.67	2.01	0.6	31.5	36.5	2.0	2,110			
24 P		7 / 0.67	2.01	0.6	36.3	41.7	2.2	2,610			
30 P		7 / 0.67	2.01	0.6	39.6	45.0	2.3	3,090			

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1 T		7 / 0.37	1.11	0.5	7.5	11.2	0.9	190			
2 T		7 / 0.37	1.11	0.5	11.6	15.3	1.1	310			
3 T		7 / 0.37	1.11	0.5	12.3	16.0	1.1	350			
4 T		7 / 0.37	1.11	0.5	13.5	17.2	1.2	410			
5 T		7 / 0.37	1.11	0.5	15.1	18.8	1.3	480			
6 T		7 / 0.37	1.11	0.5	17.1	21.0	1.3	580			
7 T		7 / 0.37	1.11	0.5	17.1	21.0	1.3	600			
8 T	0.75	7 / 0.37	1.11	0.5	18.3	22.2	1.4	670	26.0	95	0.72
10 T		7 / 0.37	1.11	0.5	20.8	24.9	1.5	820			
12 T		7 / 0.37	1.11	0.5	21.9	26.0	1.5	900			
14 T		7 / 0.37	1.11	0.5	23.0	27.1	1.6	1,000			
16 T		7 / 0.37	1.11	0.5	24.4	28.5	1.6	1,100			
19 T		7 / 0.37	1.11	0.5	25.9	30.2	1.7	1,250			
20 T		7 / 0.37	1.11	0.5	26.9	31.2	1.7	1,310			
24 T		7 / 0.37	1.11	0.5	29.4	33.9	1.9	1,540			
30 T		7 / 0.37	1.11	0.5	32.6	37.8	2.0	1,940			
1 T		7 / 0.43	1.29	0.5	7.9	11.6	1.0	200			
2 T		7 / 0.43	1.29	0.5	12.4	16.1	1.1	350			
3 T		7 / 0.43	1.29	0.5	13.2	16.9	1.2	400			
4 T		7 / 0.43	1.29	0.5	14.6	18.3	1.2	480			
5 T		7 / 0.43	1.29	0.5	16.1	19.8	1.3	550			
6 T		7 / 0.43	1.29	0.5	18.3	22.2	1.4	670			
7 T		7 / 0.43	1.29	0.5	18.3	22.2	1.4	700			
8 T	1.0	7 / 0.43	1.29	0.5	19.8	23.7	1.4	780	19.2	100	0.69
10 T		7 / 0.43	1.29	0.5	22.5	26.6	1.6	960			
12 T		7 / 0.43	1.29	0.5	23.7	27.8	1.6	1,070			
14 T		7 / 0.43	1.29	0.5	24.9	29.2	1.7	1,190			
16 T		7 / 0.43	1.29	0.5	26.4	30.7	1.7	1,320			
19 T		7 / 0.43	1.29	0.5	28.0	32.3	1.8	1,490			
20 T		7 / 0.43	1.29	0.5	29.1	33.6	1.8	1,580			
24 T		7 / 0.43	1.29	0.5	31.8	36.8	2.0	1,920			
30 T		7 / 0.43	1.29	0.5	35.3	40.5	2.1	2,310			
1 T		7 / 0.53	1.59	0.6	9.2	12.9	1.0	250			
2 T		7 / 0.53	1.59	0.6	14.5	18.2	1.2	440			
3 T		7 / 0.53	1.59	0.6	15.4	19.1	1.3	520			
4 T		7 / 0.53	1.59	0.6	17.1	21.0	1.3	630			
5 T		7 / 0.53	1.59	0.6	18.9	22.8	1.4	730			
6 T		7 / 0.53	1.59	0.6	21.5	25.6	1.5	890			
7 T		7 / 0.53	1.59	0.6	21.5	25.6	1.5	930			
8 T	1.5	7 / 0.53	1.59	0.6	23.2	27.3	1.6	1,050	12.8	110	0.66
10 T		7 / 0.53	1.59	0.6	26.4	30.7	1.7	1,290			
12 T		7 / 0.53	1.59	0.6	28.1	32.4	1.8	1,460			
14 T		7 / 0.53	1.59	0.6	29.3	33.8	1.9	1,620			
16 T		7 / 0.53	1.59	0.6	31.3	36.3	2.0	1,890			
19 T		7 / 0.53	1.59	0.6	33.2	38.4	2.0	2,150			
20 T		7 / 0.53	1.59	0.6	34.5	39.7	2.1	2,270			
24 T		7 / 0.53	1.59	0.6	37.7	43.1	2.2	2,660			
30 T		7 / 0.53	1.59	0.6	42.0	47.6	2.4	3,230			
1 T		7 / 0.67	2.01	0.6	10.0	13.7	1.0	300			
2 T		7 / 0.67	2.01	0.6	16.0	19.7	1.3	540			
3 T		7 / 0.67	2.01	0.6	17.2	21.1	1.3	660			
4 T		7 / 0.67	2.01	0.6	18.9	22.8	1.4	790			
5 T		7 / 0.67	2.01	0.6	21.2	25.3	1.5	950			
6 T		7 / 0.67	2.01	0.6	24.1	28.2	1.6	1,140			
7 T		7 / 0.67	2.01	0.6	24.1	28.2	1.6	1,210			
8 T	2.5	7 / 0.67	2.01	0.6	26.0	30.3	1.7	1,380	7.86	130	0.65
10 T		7 / 0.67	2.01	0.6	29.6	34.1	1.9	1,700			
12 T		7 / 0.67	2.01	0.6	31.5	36.5	2.0	2,020			
14 T		7 / 0.67	2.01	0.6	33.1	38.3	2.0	2,260			
16 T		7 / 0.67	2.								



Normal
Flame Retardant
Telephone & Instrument Cable
(Individual & Collective Screen)

150/250V TICI(i & c)

Cable Designation

- 150/250V TICI(i&c)
- 150/250V TIOI(i&c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Armor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

Cable Type 150/250V TICI(i&c) (150/250V TIOI(i&c))

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	7.1	10.8	0.9	170			
2 P		7 / 0.37	1.11	0.5	11.0	14.7	1.1	290			
3 P		7 / 0.37	1.11	0.5	12.0	15.7	1.1	350			
4 P		7 / 0.37	1.11	0.5	12.7	16.4	1.2	390			
5 P		7 / 0.37	1.11	0.5	14.4	18.1	1.2	460			
6 P		7 / 0.37	1.11	0.5	15.4	19.1	1.3	510			
7 P		7 / 0.37	1.11	0.5	15.4	19.1	1.3	540			
8 P		7 / 0.37	1.11	0.5	16.3	20.0	1.3	590			
10 P	0.75	7 / 0.37	1.11	0.5	18.5	22.4	1.4	720	26.0	95	0.72
12 P		7 / 0.37	1.11	0.5	19.2	23.1	1.4	790			
14 P		7 / 0.37	1.11	0.5	20.2	24.1	1.5	870			
16 P		7 / 0.37	1.11	0.5	21.6	25.7	1.5	980			
19 P		7 / 0.37	1.11	0.5	23.3	27.4	1.6	1,120			
20 P		7 / 0.37	1.11	0.5	23.3	27.4	1.6	1,140			
24 P		7 / 0.37	1.11	0.5	26.7	31.0	1.7	1,390			
30 P		7 / 0.37	1.11	0.5	29.1	33.6	1.8	1,660			
1 P		7 / 0.43	1.29	0.5	7.5	11.2	0.9	180			
2 P		7 / 0.43	1.29	0.5	11.9	15.6	1.1	340			
3 P		7 / 0.43	1.29	0.5	12.7	16.4	1.2	390			
4 P		7 / 0.43	1.29	0.5	13.5	17.2	1.2	440			
5 P		7 / 0.43	1.29	0.5	15.3	19.0	1.3	530			
6 P		7 / 0.43	1.29	0.5	16.4	20.1	1.3	590			
7 P		7 / 0.43	1.29	0.5	16.4	20.1	1.3	620			
8 P		7 / 0.43	1.29	0.5	17.6	21.5	1.4	700			
10 P	1.0	7 / 0.43	1.29	0.5	19.9	23.8	1.5	850	19.2	100	0.69
12 P		7 / 0.43	1.29	0.5	20.7	24.8	1.5	950			
14 P		7 / 0.43	1.29	0.5	21.5	25.6	1.5	1,040			
16 P		7 / 0.43	1.29	0.5	23.3	27.4	1.6	1,170			
19 P		7 / 0.43	1.29	0.5	25.1	29.4	1.7	1,350			
20 P		7 / 0.43	1.29	0.5	25.1	29.4	1.7	1,380			
24 P		7 / 0.43	1.29	0.5	28.7	33.2	1.8	1,680			
30 P		7 / 0.43	1.29	0.5	31.3	36.3	2.0	2,070			
1 P		7 / 0.53	1.59	0.6	8.7	12.4	1.0	220			
2 P		7 / 0.53	1.59	0.6	13.6	17.3	1.2	410			
3 P		7 / 0.53	1.59	0.6	14.8	18.5	1.2	480			
4 P		7 / 0.53	1.59	0.6	15.7	19.4	1.3	550			
5 P		7 / 0.53	1.59	0.6	17.8	21.7	1.4	670			
6 P		7 / 0.53	1.59	0.6	19.1	23.0	1.4	760			
7 P		7 / 0.53	1.59	0.6	19.1	23.0	1.4	800			
8 P		7 / 0.53	1.59	0.6	20.5	24.6	1.5	910			
10 P	1.5	7 / 0.53	1.59	0.6	23.2	27.3	1.6	1,100	12.8	110	0.66
12 P		7 / 0.53	1.59	0.6	24.2	28.3	1.6	1,220			
14 P		7 / 0.53	1.59	0.6	25.3	29.6	1.7	1,360			
16 P		7 / 0.53	1.59	0.6	27.2	31.5	1.8	1,530			
19 P		7 / 0.53	1.59	0.6	29.3	33.8	1.9	1,760			
20 P		7 / 0.53	1.59	0.6	29.3	33.8	1.9	1,810			
24 P		7 / 0.53	1.59	0.6	33.8	39.0	2.1	2,310			
30 P		7 / 0.53	1.59	0.6	36.8	42.2	2.2	2,740			
1 P		7 / 0.67	2.01	0.6	9.5	13.2	1.0	260			
2 P		7 / 0.67	2.01	0.6	15.2	18.9	1.3	500			
3 P		7 / 0.67	2.01	0.6	16.2	19.9	1.3	590			
4 P		7 / 0.67	2.01	0.6	17.5	21.4	1.4	700			
5 P		7 / 0.67	2.01	0.6	19.8	23.7	1.4	840			
6 P		7 / 0.67	2.01	0.6	21.3	25.4	1.5	970			
7 P		7 / 0.67	2.01	0.6	21.3	25.4	1.5	1,030			
8 P		7 / 0.67	2.01	0.6	22.9	27.0	1.6	1,160			
10 P	2.5	7 / 0.67	2.01	0.6	25.9	30.2	1.7	1,420	7.86	130	0.65
12 P		7 / 0.67	2.01	0.6	27.0	31.3	1.8	1,590			
14 P		7 / 0.67	2.01	0.6	28.2	32.5	1.8	1,760			
16 P		7 / 0.67	2.01	0.6	30.6	35.6	1.9	2,100			
19 P		7 / 0.67	2.01	0.6	32.7	37.9	2.0	2,400			
20 P		7 / 0.67	2.01	0.6	32.7	37.9	2.0	2,460			
24 P		7 / 0.67	2.01	0.6	37.7	43.1	2.2	3,010			
30 P		7 / 0.67	2.01	0.6	41.3	46.9	2.4	3,630			

Normal Power & Control Cable
 Normal Telephone & Instrument Cable
 Light Weight Power & Control Cable
 Light Weight Telephone & Instrument Cable
 Technical Data & Installation Information

Cable Type 150/250V TICl(i&c) (150/250V TIOl(i&c))

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Ω/km	Capacitance nF/km	Inductance mH/km
	Nominal Area mm ²	Strand No./mm	Dia. mm			Nominal mm	Tolerance ±mm				
1T	7 / 0.37	1.11	0.5	7.5	11.2	0.9	180				
2T	7 / 0.37	1.11	0.5	12.2	15.9	1.1	340				
3T	7 / 0.37	1.11	0.5	12.9	16.6	1.2	390				
4T	7 / 0.37	1.11	0.5	14.3	18.0	1.2	460				
5T	7 / 0.37	1.11	0.5	15.8	19.5	1.3	540				
6T	7 / 0.37	1.11	0.5	17.9	21.8	1.4	650				
7T	7 / 0.37	1.11	0.5	17.9	21.8	1.4	670				
8T	7 / 0.37	1.11	0.5	19.2	23.1	1.4	750	26.0	95	0.72	
10T	7 / 0.37	1.11	0.5	21.8	25.9	1.5	920				
12T	7 / 0.37	1.11	0.5	23.2	27.3	1.6	1,030				
14T	7 / 0.37	1.11	0.5	24.2	28.3	1.6	1,130				
16T	7 / 0.37	1.11	0.5	25.9	30.2	1.7	1,280				
19T	7 / 0.37	1.11	0.5	27.2	31.5	1.8	1,420				
20T	7 / 0.37	1.11	0.5	28.5	33.0	1.8	1,530				
24T	7 / 0.37	1.11	0.5	31.1	36.1	1.9	1,850				
30T	7 / 0.37	1.11	0.5	34.5	39.7	2.1	2,230				
1T	7 / 0.43	1.29	0.5	7.9	11.6	1.0	200				
2T	7 / 0.43	1.29	0.5	12.9	16.6	1.2	380				
3T	7 / 0.43	1.29	0.5	13.7	17.4	1.2	440				
4T	7 / 0.43	1.29	0.5	15.2	18.9	1.3	530				
5T	7 / 0.43	1.29	0.5	17.0	20.9	1.3	640				
6T	7 / 0.43	1.29	0.5	19.1	23.0	1.4	750				
7T	7 / 0.43	1.29	0.5	19.1	23.0	1.4	780				
8T	7 / 0.43	1.29	0.5	20.7	24.8	1.5	890	19.2	100	0.69	
10T	7 / 0.43	1.29	0.5	23.5	27.6	1.6	1,080				
12T	7 / 0.43	1.29	0.5	25.0	29.3	1.7	1,240				
14T	7 / 0.43	1.29	0.5	26.1	30.4	1.7	1,360				
16T	7 / 0.43	1.29	0.5	27.9	32.2	1.8	1,530				
19T	7 / 0.43	1.29	0.5	29.3	33.8	1.9	1,720				
20T	7 / 0.43	1.29	0.5	30.7	35.7	1.9	1,910				
24T	7 / 0.43	1.29	0.5	33.5	38.7	2.0	2,230				
30T	7 / 0.43	1.29	0.5	37.2	42.6	2.2	2,700				
1T	7 / 0.53	1.59	0.6	9.2	12.9	1.0	250				
2T	7 / 0.53	1.59	0.6	15.0	18.7	1.2	480				
3T	7 / 0.53	1.59	0.6	16.0	19.7	1.3	560				
4T	7 / 0.53	1.59	0.6	17.7	21.6	1.4	680				
5T	7 / 0.53	1.59	0.6	19.8	23.7	1.4	810				
6T	7 / 0.53	1.59	0.6	22.5	26.6	1.6	980				
7T	7 / 0.53	1.59	0.6	22.5	26.6	1.6	1,030				
8T	7 / 0.53	1.59	0.6	24.1	28.2	1.6	1,150	12.8	110	0.66	
10T	7 / 0.53	1.59	0.6	27.6	31.9	1.8	1,430				
12T	7 / 0.53	1.59	0.6	29.2	33.7	1.8	1,630				
14T	7 / 0.53	1.59	0.6	30.7	35.7	1.9	1,890				
16T	7 / 0.53	1.59	0.6	32.6	37.8	2.0	2,110				
19T	7 / 0.53	1.59	0.6	34.5	39.7	2.1	2,380				
20T	7 / 0.53	1.59	0.6	36.1	41.5	2.2	2,550				
24T	7 / 0.53	1.59	0.6	39.4	44.8	2.3	2,970				
30T	7 / 0.53	1.59	0.6	43.9	49.5	2.5	3,610				
1T	7 / 0.67	2.01	0.6	10.0	13.7	1.0	290				
2T	7 / 0.67	2.01	0.6	16.5	20.4	1.3	590				
3T	7 / 0.67	2.01	0.6	17.8	21.7	1.4	710				
4T	7 / 0.67	2.01	0.6	19.8	23.7	1.4	870				
5T	7 / 0.67	2.01	0.6	21.9	26.0	1.5	1,040				
6T	7 / 0.67	2.01	0.6	25.1	29.4	1.7	1,270				
7T	7 / 0.67	2.01	0.6	25.1	29.4	1.7	1,350				
8T	7 / 0.67	2.01	0.6	26.9	31.2	1.7	1,500	7.86	130	0.65	
10T	7 / 0.67	2.01	0.6	30.8	35.8	1.9	1,950				
12T	7 / 0.67	2.01	0.6	32.6	37.8	2.0	2,220				
14T	7 / 0.67	2.01	0.6	34.2	39.4	2.1	2,470				
16T	7 / 0.67	2.01	0.6	36.6	42.0	2.2	2,800				
19T	7 / 0.67	2.01	0.6	38.7	44.1	2.3	3,170				
20T	7 / 0.67	2.01	0.6	40.3	45.9	2.3	3,370				
24T	7 / 0.67	2.01	0.6	44.2	50.0	2.5	3,980				
30T	7 / 0.67	2.01	0.6	49.2	55.2	2.7	4,850				



Normal

Fire Resistance Telephone & Instrument Cable (Non Screen)

150/250V SICl

Cable Designation

- 150/250V SICl
- 150/250V SIOl

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Fire Resisting Layer		Mica / Glass Tape (MGT)
Insulation	S	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Armor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- 1) Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red
- 2) Multi pair/triad cables
 Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
- 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable
 Normal Telephone & Instrument Cable
 Light Weight Power & Control Cable
 Light Weight Telephone & Instrument Cable
 Technical Data & Installation Information

Cable Type 150/250V SICI (150/250V SIOI)

Cable Type 150/250V SICI (150/250V SIOI)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1P	7/0.37	1.11	0.5	7.7	11.4	1.0	180				
2P	7/0.37	1.11	0.5	9.2	12.9	1.0	230				
3P	7/0.37	1.11	0.5	12.9	16.6	1.2	340				
4P	7/0.37	1.11	0.5	13.7	17.4	1.2	380				
5P	7/0.37	1.11	0.5	15.5	19.2	1.3	450				
6P	7/0.37	1.11	0.5	16.8	20.7	1.3	520				
7P	7/0.37	1.11	0.5	16.8	20.7	1.3	540				
8P	7/0.37	1.11	0.5	17.9	21.8	1.4	590				
10P	7/0.37	1.11	0.5	20.2	24.1	1.5	710	26.0	100	0.72	
12P	7/0.37	1.11	0.5	21.1	25.2	1.5	780				
14P	7/0.37	1.11	0.5	21.9	26.0	1.5	850				
16P	7/0.37	1.11	0.5	23.7	27.8	1.6	950				
19P	7/0.37	1.11	0.5	25.5	29.8	1.7	1,100				
20P	7/0.37	1.11	0.5	25.5	29.8	1.7	1,110				
24P	7/0.37	1.11	0.5	29.2	33.7	1.8	1,360				
30P	7/0.37	1.11	0.5	31.8	36.8	2.0	1,670				
1P	7/0.43	1.29	0.5	8.1	11.8	1.0	190				
2P	7/0.43	1.29	0.5	9.7	13.4	1.0	250				
3P	7/0.43	1.29	0.5	13.6	17.3	1.2	370				
4P	7/0.43	1.29	0.5	14.7	18.4	1.2	430				
5P	7/0.43	1.29	0.5	16.4	20.1	1.3	500				
6P	7/0.43	1.29	0.5	17.8	21.7	1.4	580				
7P	7/0.43	1.29	0.5	17.8	21.7	1.4	600				
8P	7/0.43	1.29	0.5	19.0	22.9	1.4	670				
10P	7/0.43	1.29	0.5	21.5	25.6	1.5	810	19.2	110	0.72	
12P	7/0.43	1.29	0.5	22.6	26.7	1.6	900				
14P	7/0.43	1.29	0.5	23.4	27.5	1.6	980				
16P	7/0.43	1.29	0.5	25.4	29.7	1.7	1,120				
19P	7/0.43	1.29	0.5	27.1	31.4	1.8	1,260				
20P	7/0.43	1.29	0.5	27.1	31.4	1.8	1,280				
24P	7/0.43	1.29	0.5	31.3	36.3	2.0	1,670				
30P	7/0.43	1.29	0.5	34.1	39.3	2.1	1,970				
1P	7/0.53	1.59	0.6	9.3	13.0	1.0	230				
2P	7/0.53	1.59	0.6	10.9	14.6	1.1	300				
3P	7/0.53	1.59	0.6	15.7	19.4	1.3	470				
4P	7/0.53	1.59	0.6	16.9	20.8	1.3	550				
5P	7/0.53	1.59	0.6	18.9	22.8	1.4	650				
6P	7/0.53	1.59	0.6	20.5	24.6	1.5	750				
7P	7/0.53	1.59	0.6	20.5	24.6	1.5	780				
8P	7/0.53	1.59	0.6	21.9	26.0	1.5	870				
10P	7/0.53	1.59	0.6	25.0	29.3	1.7	1,080	12.8	120	0.66	
12P	7/0.53	1.59	0.6	26.0	30.3	1.7	1,180				
14P	7/0.53	1.59	0.6	27.0	31.3	1.8	1,290				
16P	7/0.53	1.59	0.6	29.3	33.8	1.9	1,480				
19P	7/0.53	1.59	0.6	31.5	36.5	2.0	1,770				
20P	7/0.53	1.59	0.6	31.5	36.5	2.0	1,800				
24P	7/0.53	1.59	0.6	36.3	41.7	2.2	2,230				
30P	7/0.53	1.59	0.6	39.6	45.0	2.3	2,630				
1P	7/0.67	2.01	0.6	10.1	13.8	1.1	270				
2P	7/0.67	2.01	0.6	12.1	15.8	1.1	370				
3P	7/0.67	2.01	0.6	17.4	21.3	1.4	580				
4P	7/0.67	2.01	0.6	18.5	22.4	1.4	670				
5P	7/0.67	2.01	0.6	21.0	25.1	1.5	820				
6P	7/0.67	2.01	0.6	22.7	26.8	1.6	940				
7P	7/0.67	2.01	0.6	22.7	26.8	1.6	990				
8P	7/0.67	2.01	0.6	24.2	28.3	1.6	1,100				
10P	7/0.67	2.01	0.6	27.7	32.0	1.8	1,360	7.86	135	0.65	
12P	7/0.67	2.01	0.6	28.8	33.3	1.8	1,530				
14P	7/0.67	2.01	0.6	29.9	34.4	1.9	1,680				
16P	7/0.67	2.01	0.6	32.4	37.6	2.0	2,000				
19P	7/0.67	2.01	0.6	34.9	40.1	2.1	2,290				
20P	7/0.67	2.01	0.6	34.9	40.1	2.1	2,340				
24P	7/0.67	2.01	0.6	40.2	45.8	2.3	2,890				
30P	7/0.67	2.01	0.6	44.1	49.9	2.5	3,470				

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1T	7/0.37	1.11	0.5	8.1	11.8	1.0	190				
2T	7/0.37	1.11	0.5	13.2	16.9	1.2	350				
3T	7/0.37	1.11	0.5	14.2	17.9	1.2	400				
4T	7/0.37	1.11	0.5	15.5	19.2	1.3	470				
5T	7/0.37	1.11	0.5	17.3	21.2	1.3	560				
6T	7/0.37	1.11	0.5	19.7	23.6	1.4	670				
7T	7/0.37	1.11	0.5	19.7	23.6	1.4	700				
8T	7/0.37	1.11	0.5	21.1	25.2	1.5	780				
10T	7/0.37	1.11	0.5	24.0	28.1	1.6	950	26.0	100	0.72	
12T	7/0.37	1.11	0.5	25.5	29.8	1.7	1,080				
14T	7/0.37	1.11	0.5	26.6	30.9	1.7	1,180				
16T	7/0.37	1.11	0.5	28.4	32.7	1.8	1,310				
19T	7/0.37	1.11	0.5	29.9	34.4	1.9	1,470				
20T	7/0.37	1.11	0.5	31.3	36.3	2.0	1,650				
24T	7/0.37	1.11	0.5	34.2	39.4	2.1	1,920				
30T	7/0.37	1.11	0.5	37.9	43.3	2.2	2,310				
1T	7/0.43	1.29	0.5	8.7	12.4	1.0	220				
2T	7/0.43	1.29	0.5	14.1	17.8	1.2	390				
3T	7/0.43	1.29	0.5	15.0	18.7	1.2	450				
4T	7/0.43	1.29	0.5	16.4	20.1	1.3	520				
5T	7/0.43	1.29	0.5	18.4	22.3	1.4	630				
6T	7/0.43	1.29	0.5	20.9	25.0	1.5	770				
7T	7/0.43	1.29	0.5	20.9	25.0	1.5	800				
8T	7/0.43	1.29	0.5	22.6	26.7	1.6	900				
10T	7/0.43	1.29	0.5	25.7	30.0	1.7	1,110	19.2	110	0.72	
12T	7/0.43	1.29	0.5	27.1	31.4	1.8	1,240				
14T	7/0.43	1.29	0.5	28.5	33.0	1.8	1,380				
16T	7/0.43	1.29	0.5	30.4	35.4	1.9	1,620				
19T	7/0.43	1.29	0.5	32.0	37.2	2.0	1,820				
20T	7/0.43	1.29	0.5	33.5	38.7	2.0	1,930				
24T	7/0.43	1.29	0.5	36.6	42.0	2.2	2,260				
30T	7/0.43	1.29	0.5	40.6	46.2	2.3	2,720				
1T	7/0.53	1.59	0.6	9.8	13.5	1.0	260				
2T	7/0.53	1.59	0.6	16.0	19.7	1.3	480				
3T	7/0.53	1.59	0.6	17.2	21.1	1.3	580				
4T	7/0.53	1.59	0.6	18.9	22.8	1.4	680				
5T	7/0.53	1.59	0.6	21.2	25.3	1.5	830				
6T	7/0.53	1.59	0.6	24.1	28.2	1.6	990				
7T	7/0.53	1.59	0.6	24.1	28.2	1.6	1,040				
8T	7/0.53	1.59	0.6	26.0	30.3	1.7	1,180				
10T	7/0.53	1.59	0.6	29.6	34.1	1.9	1,460	12.8	120	0.66	
12T	7/0.53	1.59	0.6	31.5	36.5	2.0	1,730				
14T	7/0.53	1.59	0.6	33.1	38.3	2.0	1,940				
16T	7/0.53	1.59	0.6	35.1	40.3	2.1	2,140				
19T	7/0.53	1.59	0.6	37.2	42.6	2.2	2,430				
20T	7/0.53	1.59	0.6	38.9	44.3	2.3	2,590				
24T	7/0.53	1.59	0.6	42.5	48.1	2.4	3,030				
30T	7/0.53	1.59	0.6	47.3	53.1	2.6	3,680				
1T	7/0.67	2.01	0.6	10.7	14.4	1.1	300				
2T	7/0.67	2.01	0.6	17.7	21.6	1.4	590				
3T	7/0.67	2.01	0.6	18.9	22.8	1.4	710				
4T	7/0.67	2.01	0.6	21.0	25.1	1.5	870				
5T	7/0.67	2.01	0.6	23.5	27.6	1.6	1,040				
6T	7/0.67	2.01	0.6	26.7	31.0	1.7	1,270				
7T	7/0.67	2.01	0.6	26.7	31.0	1.7	1,340				
8T	7/0.67	2.01	0.6	28.8	33.3	1.8	1,530				
10T	7/0.67	2.01	0.6	33.0	38.2	2.0	1,990	7.86	135	0.65	
12T	7/0.67	2.01	0.6	34.9	40.1	2.1	2,240				
14T	7/0.67	2.01	0.6	36.6	42.0	2.2	2,500				
16T	7/0.67	2.01	0.6	39.1	44.5	2.3	2,810				
19T	7/0.67	2.01	0.6	41.4	47.0	2.4	3,200				
20T	7/0.67	2.01	0.6	43.1	48.7	2.4	3,380				
24T	7/0.67	2.01	0.6	47.3	53.1	2.6	3,990				
30T	7/0.67	2.01	0.6	52.6	58.8	2.9	4,890				

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Normal

Fire Resistance Telephone & Instrument Cable (Individual Screen)

150/250V SICI(i)

Cable Designation

- 150/250V SICI(i)
- 150/250V SIOI(i)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica / Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Aarmor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Cable Type 150/250V SICI(i) (150/250V SIOI(i))

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	8.0	11.7	1.0	190			
2 P		7 / 0.37	1.11	0.5	12.4	16.1	1.1	330			
3 P		7 / 0.37	1.11	0.5	13.2	16.9	1.2	370			
4 P		7 / 0.37	1.11	0.5	14.3	18.0	1.2	430			
5 P		7 / 0.37	1.11	0.5	16.0	19.7	1.3	510			
6 P		7 / 0.37	1.11	0.5	17.4	21.3	1.4	590			
7 P		7 / 0.37	1.11	0.5	17.4	21.3	1.4	620			
8 P		7 / 0.37	1.11	0.5	18.5	22.4	1.4	680			
10 P	0.75	7 / 0.37	1.11	0.5	21.0	25.1	1.5	830	26.0	100	0.72
12 P		7 / 0.37	1.11	0.5	21.8	25.9	1.5	910			
14 P		7 / 0.37	1.11	0.5	22.9	27.0	1.6	1,000			
16 P		7 / 0.37	1.11	0.5	24.6	28.9	1.7	1,130			
19 P		7 / 0.37	1.11	0.5	26.5	30.8	1.7	1,290			
20 P		7 / 0.37	1.11	0.5	26.5	30.8	1.7	1,320			
24 P		7 / 0.37	1.11	0.5	30.6	35.6	1.9	1,710			
30 P		7 / 0.37	1.11	0.5	33.4	38.6	2.0	2,030			
1 P		7 / 0.43	1.29	0.5	8.4	12.1	1.0	210			
2 P		7 / 0.43	1.29	0.5	13.1	16.8	1.2	360			
3 P		7 / 0.43	1.29	0.5	14.2	17.9	1.2	430			
4 P		7 / 0.43	1.29	0.5	15.1	18.8	1.3	490			
5 P		7 / 0.43	1.29	0.5	17.1	21.0	1.3	590			
6 P		7 / 0.43	1.29	0.5	18.4	22.3	1.4	670			
7 P		7 / 0.43	1.29	0.5	18.4	22.3	1.4	700			
8 P		7 / 0.43	1.29	0.5	19.8	23.7	1.4	790			
10 P	1.0	7 / 0.43	1.29	0.5	22.4	26.5	1.6	960	19.2	110	0.72
12 P		7 / 0.43	1.29	0.5	23.3	27.4	1.6	1,060			
14 P		7 / 0.43	1.29	0.5	24.2	28.3	1.6	1,160			
16 P		7 / 0.43	1.29	0.5	26.3	30.6	1.7	1,330			
19 P		7 / 0.43	1.29	0.5	28.3	32.6	1.8	1,520			
20 P		7 / 0.43	1.29	0.5	28.3	32.6	1.8	1,550			
24 P		7 / 0.43	1.29	0.5	32.5	37.7	2.0	2,000			
30 P		7 / 0.43	1.29	0.5	35.4	40.6	2.1	2,360			
1 P		7 / 0.53	1.59	0.6	9.6	13.3	1.0	250			
2 P		7 / 0.53	1.59	0.6	15.0	18.7	1.2	440			
3 P		7 / 0.53	1.59	0.6	16.0	19.7	1.3	510			
4 P		7 / 0.53	1.59	0.6	17.3	21.2	1.3	610			
5 P		7 / 0.53	1.59	0.6	19.6	23.5	1.4	740			
6 P		7 / 0.53	1.59	0.6	21.1	25.2	1.5	840			
7 P		7 / 0.53	1.59	0.6	21.1	25.2	1.5	890			
8 P		7 / 0.53	1.59	0.6	22.7	26.8	1.6	1,000			
10 P	1.5	7 / 0.53	1.59	0.6	25.7	30.0	1.7	1,220	12.8	120	0.66
12 P		7 / 0.53	1.59	0.6	26.8	31.1	1.7	1,360			
14 P		7 / 0.53	1.59	0.6	28.0	32.3	1.8	1,500			
16 P		7 / 0.53	1.59	0.6	30.4	35.4	1.9	1,800			
19 P		7 / 0.53	1.59	0.6	32.5	37.7	2.0	2,050			
20 P		7 / 0.53	1.59	0.6	32.5	37.7	2.0	2,090			
24 P		7 / 0.53	1.59	0.6	37.5	42.9	2.2	2,580			
30 P		7 / 0.53	1.59	0.6	41.1	46.7	2.4	3,090			
1 P		7 / 0.67	2.01	0.6	10.4	14.1	1.1	290			
2 P		7 / 0.67	2.01	0.6	16.3	20.0	1.3	520			
3 P		7 / 0.67	2.01	0.6	17.7	21.6	1.4	640			
4 P		7 / 0.67	2.01	0.6	18.9	22.8	1.4	740			
5 P		7 / 0.67	2.01	0.6	21.5	25.6	1.5	910			
6 P		7 / 0.67	2.01	0.6	23.3	27.4	1.6	1,050			
7 P		7 / 0.67	2.01	0.6	23.3	27.4	1.6	1,110			
8 P		7 / 0.67	2.01	0.6	25.0	29.3	1.7	1,260			
10 P	2.5	7 / 0.67	2.01	0.6	28.4	32.7	1.8	1,540	7.86	135	0.65
12 P		7 / 0.67	2.01	0.6	29.6	34.1	1.9	1,740			
14 P		7 / 0.67	2.01	0.6	31.0	36.0	1.9	2,010			
16 P		7 / 0.67	2.01	0.6	33.5	38.7	2.0	2,290			
19 P		7 / 0.67	2.01	0.6	36.1	41.5	2.2	2,650			
20 P		7 / 0.67	2.01	0.6	36.1	41.5	2.2	2,710			
24 P		7 / 0.67	2.01	0.6	41.6	47.2	2.4	3,330			
30 P		7 / 0.67	2.01	0.6	45.4	51.2	2.5	3,980			

Cable Type 150/250V SICI(i) (150/250V SIOI(i))

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1T		7 / 0.37	1.11	0.5	8.4	12.1	1.0	210			
2T		7 / 0.37	1.11	0.5	13.5	17.2	1.2	370			
3T		7 / 0.37	1.11	0.5	14.5	18.2	1.2	430			
4T		7 / 0.37	1.11	0.5	16.0	19.7	1.3	510			
5T		7 / 0.37	1.11	0.5	17.9	21.8	1.4	610			
6T		7 / 0.37	1.11	0.5	20.3	24.2	1.5	730			
7T		7 / 0.37	1.11	0.5	20.3	24.2	1.5	760			
8T	0.75	7 / 0.37	1.11	0.5	21.8	25.9	1.5	860	26.0	100	0.72
10T		7 / 0.37	1.11	0.5	25.0	29.3	1.7	1,070			
12T		7 / 0.37	1.11	0.5	26.4	30.7	1.7	1,200			
14T		7 / 0.37	1.11	0.5	27.7	32.0	1.8	1,320			
16T		7 / 0.37	1.11	0.5	29.5	34.0	1.9	1,480			
19T		7 / 0.37	1.11	0.5	31.2	36.2	1.9	1,740			
20T		7 / 0.37	1.11	0.5	32.5	37.7	2.0	1,860			
24T		7 / 0.37	1.11	0.5	35.7	40.9	2.1	2,170			
30T		7 / 0.37	1.11	0.5	39.6	45.0	2.3	2,610			
1T		7 / 0.43	1.29	0.5	9.0	12.7	1.0	230			
2T		7 / 0.43	1.29	0.5	14.4	18.1	1.2	420			
3T		7 / 0.43	1.29	0.5	15.4	19.1	1.3	490			
4T		7 / 0.43	1.29	0.5	17.1	21.0	1.3	600			
5T		7 / 0.43	1.29	0.5	18.9	22.8	1.4	700			
6T		7 / 0.43	1.29	0.5	21.5	25.6	1.5	850			
7T		7 / 0.43	1.29	0.5	21.5	25.6	1.5	890			
8T	1.0	7 / 0.43	1.29	0.5	23.3	27.4	1.6	1,000	19.2	110	0.72
10T		7 / 0.43	1.29	0.5	26.5	30.8	1.7	1,230			
12T		7 / 0.43	1.29	0.5	28.2	32.5	1.8	1,400			
14T		7 / 0.43	1.29	0.5	29.4	33.9	1.9	1,550			
16T		7 / 0.43	1.29	0.5	31.5	36.5	2.0	1,820			
19T		7 / 0.43	1.29	0.5	33.3	38.5	2.0	2,060			
20T		7 / 0.43	1.29	0.5	34.7	39.9	2.1	2,170			
24T		7 / 0.43	1.29	0.5	37.9	43.3	2.2	2,550			
30T		7 / 0.43	1.29	0.5	42.3	47.9	2.4	3,100			
1T		7 / 0.53	1.59	0.6	10.1	13.8	1.1	270			
2T		7 / 0.53	1.59	0.6	16.3	20.0	1.3	510			
3T		7 / 0.53	1.59	0.6	17.6	21.5	1.4	620			
4T		7 / 0.53	1.59	0.6	19.6	23.5	1.4	750			
5T		7 / 0.53	1.59	0.6	21.7	25.8	1.5	890			
6T		7 / 0.53	1.59	0.6	24.9	29.2	1.7	1,090			
7T		7 / 0.53	1.59	0.6	24.9	29.2	1.7	1,150			
8T	1.5	7 / 0.53	1.59	0.6	26.7	31.0	1.7	1,280	12.8	120	0.66
10T		7 / 0.53	1.59	0.6	30.6	35.6	1.9	1,680			
12T		7 / 0.53	1.59	0.6	32.4	37.6	2.0	1,900			
14T		7 / 0.53	1.59	0.6	34.0	39.2	2.1	2,110			
16T		7 / 0.53	1.59	0.6	36.4	41.8	2.2	2,380			
19T		7 / 0.53	1.59	0.6	38.5	43.9	2.3	2,680			
20T		7 / 0.53	1.59	0.6	40.1	45.7	2.3	2,850			
24T		7 / 0.53	1.59	0.6	44.0	49.8	2.5	3,370			
30T		7 / 0.53	1.59	0.6	48.8	54.8	2.7	4,070			
1T		7 / 0.67	2.01	0.6	11.0	14.7	1.1	320			
2T		7 / 0.67	2.01	0.6	18.1	22.0	1.4	630			
3T		7 / 0.67	2.01	0.6	19.5	23.4	1.4	770			
4T		7 / 0.67	2.01	0.6	21.4	25.5	1.5	930			
5T		7 / 0.67	2.01	0.6	24.0	28.1	1.6	1,120			
6T		7 / 0.67	2.01	0.6	27.3	31.6	1.8	1,360			
7T		7 / 0.67	2.01	0.6	27.3	31.6	1.8	1,440			
8T	2.5	7 / 0.67	2.01	0.6	29.5	34.0	1.9	1,650	7.86	135	0.65
10T		7 / 0.67	2.01	0.6	33.8	39.0	2.1	2,140			
12T		7 / 0.67	2.01	0.6	36.0	41.4	2.2	2,450			
14T		7 / 0.67	2.01	0.6	37.6	43.0	2.2	2,710			
16T		7 / 0.67	2.01	0.6	40.2	45.8	2.3	3,070			
19T		7 / 0.67	2.01	0.6	42.5	48.1	2.4	3,470			
20T		7 / 0.67	2.01	0.6	44.5	50.3	2.5	3,720			
24T		7 / 0.67	2.01	0.6	48.6	54.6	2.7	4,370			
30T		7 / 0.67	2.01	0.6	54.2	60.4	2.9	5,330			



Normal
Fire Resistance
Telephone & Instrument Cable
(Collective Screen)

150/250V SICI(c)

Cable Designation

- 150/250V SICI(c)
- 150/250V SIOI(c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain (or Tinned), Annealed, Stranded copper wire
Fire Resisting Layer		Mica / Glass Tape (MGT)
Insulation	S	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Sheath	I	Halogen Free Thermoplastic compound (SHF1) as per IEC 60092-359
Armor	C or O	Galvanized Steel Wire Braid (C) Copper Wire Braid (O)
Outer Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

\ Cable Type 150/250V SICI(c) (150/250V SIOI(c))

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	7.9	11.6	1.0	190			
2 P		7 / 0.37	1.11	0.5	9.2	12.9	1.0	240			
3 P		7 / 0.37	1.11	0.5	12.9	16.6	1.2	350			
4 P		7 / 0.37	1.11	0.5	13.7	17.4	1.2	390			
5 P		7 / 0.37	1.11	0.5	15.5	19.2	1.3	470			
6 P		7 / 0.37	1.11	0.5	16.8	20.7	1.3	540			
7 P		7 / 0.37	1.11	0.5	16.8	20.7	1.3	550			
8 P	0.75	7 / 0.37	1.11	0.5	17.9	21.8	1.4	610	26.0	95	0.72
10 P		7 / 0.37	1.11	0.5	20.2	24.1	1.5	720			
12 P		7 / 0.37	1.11	0.5	21.1	25.2	1.5	800			
14 P		7 / 0.37	1.11	0.5	21.9	26.0	1.5	870			
16 P		7 / 0.37	1.11	0.5	23.7	27.8	1.6	980			
19 P		7 / 0.37	1.11	0.5	25.5	29.8	1.7	1,120			
20 P		7 / 0.37	1.11	0.5	25.5	29.8	1.7	1,130			
24 P		7 / 0.37	1.11	0.5	29.2	33.7	1.8	1,390			
30 P		7 / 0.37	1.11	0.5	31.8	36.8	2.0	1,700			
1 P		7 / 0.43	1.29	0.5	8.3	12.0	1.0	200			
2 P		7 / 0.43	1.29	0.5	9.7	13.4	1.0	260			
3 P		7 / 0.43	1.29	0.5	13.6	17.3	1.2	390			
4 P		7 / 0.43	1.29	0.5	14.7	18.4	1.2	450			
5 P		7 / 0.43	1.29	0.5	16.4	20.1	1.3	520			
6 P		7 / 0.43	1.29	0.5	17.8	21.7	1.4	600			
7 P		7 / 0.43	1.29	0.5	17.8	21.7	1.4	620			
8 P	1.0	7 / 0.43	1.29	0.5	19.0	22.9	1.4	690	19.2	100	0.69
10 P		7 / 0.43	1.29	0.5	21.5	25.6	1.5	840			
12 P		7 / 0.43	1.29	0.5	22.6	26.7	1.6	930			
14 P		7 / 0.43	1.29	0.5	23.4	27.5	1.6	1,000			
16 P		7 / 0.43	1.29	0.5	25.4	29.7	1.7	1,140			
19 P		7 / 0.43	1.29	0.5	27.1	31.4	1.8	1,280			
20 P		7 / 0.43	1.29	0.5	27.1	31.4	1.8	1,310			
24 P		7 / 0.43	1.29	0.5	31.3	36.3	2.0	1,700			
30 P		7 / 0.43	1.29	0.5	34.1	39.3	2.1	2,000			
1 P		7 / 0.53	1.59	0.6	9.5	13.2	1.0	250			
2 P		7 / 0.53	1.59	0.6	10.9	14.6	1.1	310			
3 P		7 / 0.53	1.59	0.6	15.7	19.4	1.3	490			
4 P		7 / 0.53	1.59	0.6	16.9	20.8	1.3	570			
5 P		7 / 0.53	1.59	0.6	18.9	22.8	1.4	670			
6 P		7 / 0.53	1.59	0.6	20.5	24.6	1.5	770			
7 P		7 / 0.53	1.59	0.6	20.5	24.6	1.5	810			
8 P	1.5	7 / 0.53	1.59	0.6	21.9	26.0	1.5	890	12.8	110	0.66
10 P		7 / 0.53	1.59	0.6	25.0	29.3	1.7	1,100			
12 P		7 / 0.53	1.59	0.6	26.0	30.3	1.7	1,210			
14 P		7 / 0.53	1.59	0.6	27.0	31.3	1.8	1,320			
16 P		7 / 0.53	1.59	0.6	29.3	33.8	1.9	1,510			
19 P		7 / 0.53	1.59	0.6	31.5	36.5	2.0	1,790			
20 P		7 / 0.53	1.59	0.6	31.5	36.5	2.0	1,830			
24 P		7 / 0.53	1.59	0.6	36.3	41.7	2.2	2,270			
30 P		7 / 0.53	1.59	0.6	39.6	45.0	2.3	2,660			
1 P		7 / 0.67	2.01	0.6	10.3	14.0	1.1	280			
2 P		7 / 0.67	2.01	0.6	12.1	15.8	1.1	380			
3 P		7 / 0.67	2.01	0.6	17.4	21.3	1.4	610			
4 P		7 / 0.67	2.01	0.6	18.5	22.4	1.4	690			
5 P		7 / 0.67	2.01	0.6	21.0	25.1	1.5	850			
6 P		7 / 0.67	2.01	0.6	22.7	26.8	1.6	960			
7 P		7 / 0.67	2.01	0.6	22.7	26.8	1.6	1,010			
8 P	2.5	7 / 0.67	2.01	0.6	24.2	28.3	1.6	1,120	7.86	130	0.65
10 P		7 / 0.67	2.01	0.6	27.7	32.0	1.8	1,390			
12 P		7 / 0.67	2.01	0.6	28.8	33.3	1.8	1,560			
14 P		7 / 0.67	2.01	0.6	29.9	34.4	1.9	1,710			
16 P		7 / 0.67	2.01	0.6	32.4	37.6	2.0	2,030			
19 P		7 / 0.67	2.01	0.6	34.9	40.1	2.1	2,320			
20 P		7 / 0.67	2.01	0.6	34.9	40.1	2.1	2,370			
24 P		7 / 0.67	2.01	0.6	40.2	45.8	2.3	2,930			
30 P		7 / 0.67	2.01	0.6	44.1	49.9	2.5	3,510			

\ Cable Type 150/250V SICI(c) (150/250V SIOI(c))

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 T		7 / 0.37	1.11	0.5	8.3	12.0	1.0	210			
2 T		7 / 0.37	1.11	0.5	9.2	12.9	1.2	360			
3 T		7 / 0.37	1.11	0.5	14.2	17.9	1.2	420			
4 T		7 / 0.37	1.11	0.5	15.5	19.2	1.3	480			
5 T		7 / 0.37	1.11	0.5	17.3	21.2	1.3	580			
6 T		7 / 0.37	1.11	0.5	19.7	23.6	1.4	690			
7 T		7 / 0.37	1.11	0.5	19.7	23.6	1.4	710			
8 T	0.75	7 / 0.37	1.11	0.5	21.1	25.2	1.5	800	26.0	95	0.72
10 T		7 / 0.37	1.11	0.5	24.0	28.1	1.6	970			
12 T		7 / 0.37	1.11	0.5	25.5	29.8	1.7	1,100			
14 T		7 / 0.37	1.11	0.5	26.6	30.9	1.7	1,200			
16 T		7 / 0.37	1.11	0.5	28.4	32.7	1.8	1,340			
19 T		7 / 0.37	1.11	0.5	29.9	34.4	1.9	1,500			
20 T		7 / 0.37	1.11	0.5	31.3	36.3	2.0	1,680			
24 T		7 / 0.37	1.11	0.5	34.2	39.4	2.1	1,950			
30 T		7 / 0.37	1.11	0.5	37.9	43.3	2.2	2,340			
1 T		7 / 0.43	1.29	0.5	8.9	12.6	1.0	230			
2 T		7 / 0.43	1.29	0.5	14.1	17.8	1.2	410			
3 T		7 / 0.43	1.29	0.5	15.0	18.7	1.2	470			
4 T		7 / 0.43	1.29	0.5	16.4	20.1	1.3	540			
5 T		7 / 0.43	1.29	0.5	18.4	22.3	1.4	650			
6 T		7 / 0.43	1.29	0.5	20.9	25.0	1.5	790			
7 T		7 / 0.43	1.29	0.5	20.9	25.0	1.5	820			
8 T	1.0	7 / 0.43	1.29	0.5	22.6	26.7	1.6	930	19.2	100	0.69
10 T		7 / 0.43	1.29	0.5	25.7	30.0	1.7	1,140			
12 T		7 / 0.43	1.29	0.5	27.1	31.4	1.8	1,260			
14 T		7 / 0.43	1.29	0.5	28.5	33.0	1.8	1,410			
16 T		7 / 0.43	1.29	0.5	30.4	35.4	1.9	1,650			
19 T		7 / 0.43	1.29	0.5	32.0	37.2	2.0	1,850			
20 T		7 / 0.43	1.29	0.5	33.5	38.7	2.0	1,970			
24 T		7 / 0.43	1.29	0.5	36.6	42.0	2.2	2,300			
30 T		7 / 0.43	1.29	0.5	40.6	46.2	2.3	2,760			
1 T		7 / 0.53	1.59	0.6	10.0	13.7	1.0	270			
2 T		7 / 0.53	1.59	0.6	16.0	19.7	1.3	500			
3 T		7 / 0.53	1.59	0.6	17.2	21.1	1.3	600			
4 T		7 / 0.53	1.59	0.6	18.9	22.8	1.4	700			
5 T		7 / 0.53	1.59	0.6	21.2	25.3	1.5	850			
6 T		7 / 0.53	1.59	0.6	24.1	28.2	1.6	1,010			
7 T		7 / 0.53	1.59	0.6	24.1	28.2	1.6	1,060			
8 T	1.5	7 / 0.53	1.59	0.6	26.0	30.3	1.7	1,210	12.8	110	0.66
10 T		7 / 0.53	1.59	0.6	29.6	34.1	1.9	1,490			
12 T		7 / 0.53	1.59	0.6	31.5	36.5	2.0	1,760			
14 T		7 / 0.53	1.59	0.6	33.1	38.3	2.0	1,970			
16 T		7 / 0.53	1.59	0.6	35.1	40.3	2.1	2,170			
19 T		7 / 0.53	1.59	0.6	37.2	42.6	2.2	2,460			
20 T		7 / 0.53	1.59	0.6	38.9	44.3	2.3	2,620			
24 T		7 / 0.53	1.59	0.6	42.5	48.1	2.4	3,070			
30 T		7 / 0.53	1.59	0.6	47.3	53.1	2.6	3,720			
1 T		7 / 0.67	2.01	0.6	10.9	14.6	1.1	320			
2 T		7 / 0.67	2.01	0.6	17.7	21.6	1.4	610			
3 T		7 / 0.67	2.01	0.6	18.9	22.8	1.4	730			
4 T		7 / 0.67	2.01	0.6	21.0	25.1	1.5	890			
5 T		7 / 0.67	2.01	0.6	23.5	27.6	1.6	1,070			
6 T		7 / 0.67	2.01	0.6	26.7	31.0	1.7	1,290			
7 T		7 / 0.67	2.01	0.6	26.7	31.0	1.7	1,370			
8 T	2.5	7 / 0.67	2.01	0.6	28.8	33.3	1.8	1,550	7.86	130	0.65
10 T		7 / 0.67	2.01	0.6	33.0	38.2	2.0	2,020			
12 T		7 / 0.67	2.01	0.6	34.9	40.1	2.1	2,270			
14 T		7 / 0.67	2.01	0.6	36.6	42.0	2.2	2			

Cable Type 150/250V SICI(i&c) (150/250V SIOI(i&c))

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Sheath	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm²	No./mm	mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 T		7 / 0.37	1.11	0.5	8.3	12.0	1.0	210			
2 T		7 / 0.37	1.11	0.5	13.7	17.4	1.2	390			
3 T		7 / 0.37	1.11	0.5	14.7	18.4	1.2	450			
4 T		7 / 0.37	1.11	0.5	16.2	19.9	1.3	530			
5 T		7 / 0.37	1.11	0.5	18.1	22.0	1.4	640			
6 T		7 / 0.37	1.11	0.5	20.5	24.6	1.5	770			
7 T		7 / 0.37	1.11	0.5	20.5	24.6	1.5	800			
8 T	0.75	7 / 0.37	1.11	0.5	22.2	26.3	1.6	900	26.0	95	0.72
10 T		7 / 0.37	1.11	0.5	25.2	29.5	1.7	1,100			
12 T		7 / 0.37	1.11	0.5	26.6	30.9	1.7	1,220			
14 T		7 / 0.37	1.11	0.5	27.9	32.2	1.8	1,350			
16 T		7 / 0.37	1.11	0.5	29.7	34.2	1.9	1,510			
19 T		7 / 0.37	1.11	0.5	31.4	36.4	2.0	1,770			
20 T		7 / 0.37	1.11	0.5	32.7	37.9	2.0	1,890			
24 T		7 / 0.37	1.11	0.5	35.9	41.1	2.1	2,210			
30 T		7 / 0.37	1.11	0.5	39.8	45.2	2.3	2,650			
1 T		7 / 0.43	1.29	0.5	8.9	12.6	1.0	240			
2 T		7 / 0.43	1.29	0.5	14.6	18.3	1.2	440			
3 T		7 / 0.43	1.29	0.5	15.6	19.3	1.3	510			
4 T		7 / 0.43	1.29	0.5	17.3	21.2	1.3	620			
5 T		7 / 0.43	1.29	0.5	19.1	23.0	1.4	720			
6 T		7 / 0.43	1.29	0.5	21.7	25.8	1.5	870			
7 T		7 / 0.43	1.29	0.5	21.7	25.8	1.5	910			
8 T	1.0	7 / 0.43	1.29	0.5	23.5	27.6	1.6	1,030	19.2	100	0.69
10 T		7 / 0.43	1.29	0.5	26.7	31.0	1.7	1,260			
12 T		7 / 0.43	1.29	0.5	28.4	32.7	1.8	1,430			
14 T		7 / 0.43	1.29	0.5	29.6	34.1	1.9	1,580			
16 T		7 / 0.43	1.29	0.5	31.7	36.7	2.0	1,850			
19 T		7 / 0.43	1.29	0.5	33.5	38.7	2.0	2,090			
20 T		7 / 0.43	1.29	0.5	34.9	40.1	2.1	2,210			
24 T		7 / 0.43	1.29	0.5	38.1	43.5	2.2	2,590			
30 T		7 / 0.43	1.29	0.5	42.5	48.1	2.4	3,140			
1 T		7 / 0.53	1.59	0.6	10.0	13.7	1.0	280			
2 T		7 / 0.53	1.59	0.6	16.5	20.4	1.3	540			
3 T		7 / 0.53	1.59	0.6	17.8	21.7	1.4	640			
4 T		7 / 0.53	1.59	0.6	19.8	23.7	1.4	770			
5 T		7 / 0.53	1.59	0.6	21.9	26.0	1.5	920			
6 T		7 / 0.53	1.59	0.6	25.1	29.4	1.7	1,120			
7 T		7 / 0.53	1.59	0.6	25.1	29.4	1.7	1,180			
8 T	1.5	7 / 0.53	1.59	0.6	26.9	31.2	1.7	1,310	12.8	110	0.66
10 T		7 / 0.53	1.59	0.6	30.8	35.8	1.9	1,710			
12 T		7 / 0.53	1.59	0.6	32.6	37.8	2.0	1,940			
14 T		7 / 0.53	1.59	0.6	34.2	39.4	2.1	2,140			
16 T		7 / 0.53	1.59	0.6	36.6	42.0	2.2	2,420			
19 T		7 / 0.53	1.59	0.6	38.7	44.1	2.3	2,720			
20 T		7 / 0.53	1.59	0.6	40.3	45.9	2.3	2,890			
24 T		7 / 0.53	1.59	0.6	44.2	50.0	2.5	3,410			
30 T		7 / 0.53	1.59	0.6	49.2	55.2	2.7	4,140			
1 T		7 / 0.67	2.01	0.6	10.9	14.6	1.1	340			
2 T		7 / 0.67	2.01	0.6	18.3	22.2	1.4	660			
3 T		7 / 0.67	2.01	0.6	19.7	23.6	1.4	790			
4 T		7 / 0.67	2.01	0.6	21.6	25.7	1.5	960			
5 T		7 / 0.67	2.01	0.6	24.2	28.3	1.6	1,150			
6 T		7 / 0.67	2.01	0.6	27.7	32.0	1.8	1,410			
7 T		7 / 0.67	2.01	0.6	27.7	32.0	1.8	1,490			
8 T	2.5	7 / 0.67	2.01	0.6	29.7	34.2	1.9	1,680	7.9	130	0.65
10 T		7 / 0.67	2.01	0.6	34.0	39.2	2.1	2,180			
12 T		7 / 0.67	2.01	0.6	36.2	41.6	2.2	2,500			
14 T		7 / 0.67	2.01	0.6	37.8	43.2	2.2	2,760			
16 T		7 / 0.67	2.01	0.6	40.4	46.0	2.3	3,110			
19 T		7 / 0.67	2.01	0.6	42.7	48.3	2.4	3,520			
20 T		7 / 0.67	2.01	0.6	44.7	50.5	2.5	3,760			
24 T		7 / 0.67	2.01	0.6	48.8	54.8	2.7	4,420			
30 T		7 / 0.67	2.01	0.6	54.6	60.8	2.9	5,410			



Light Weight

Flame Retardant Power & Control Cable (Armored)

0.6/1kV TFOI

Cable Designation

- 0.6/1kV TFOI

Application

- This cable is designed for power, lighting & control circuits up to 0.6/1kV.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 353
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Covering	F	Halogen Free Tape (Lapped inner covering)
Aarmor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color : Black

	No. of Cores	Method 1 (without ground core)	Method 2 (with ground core)
Core Identification	1C	Black	-
	2C	Red, Black	-
	3C / 3G	Red, Yellow, Blue	Red, Black, Green/Yellow
	4C / 4G	Red, Yellow, Blue, Black	Red, Yellow, Blue, Green/Yellow
	5C / 5G	Black number on White insulation	Red, Yellow, Blue, Black, Green/Yellow
	6 and over (6G and over)	Black number on White insulation	Black number on White insulation, Green/Yellow

Note) 1. The letter "G" means that the cable has the ground core.
2. The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 0.6/1kV TFOI

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Plain	Current Ratings (at 45°C)	
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
	mm²	No./mm	mm			mm	±mm				
1	1.5	7 / 0.53	1.59	0.7	3.7	7.0	0.8	80	12.1	23	
	2.5	7 / 0.67	2.01	0.7	4.1	7.4	0.8	90	7.41	40	
	4	7 / 0.85	2.55	0.7	4.7	8.1	0.8	110	4.61	51	
	6	7 / 1.04	3.12	0.7	5.2	8.6	0.8	140	3.08	52	
	10	7 / 1.35	4.05	0.7	6.2	9.8	0.9	190	1.830	72	
	16	C.C *	4.80	0.7	6.9	10.5	0.9	250	1.150	96	
	25	C.C	6.10	0.9	8.6	12.4	1.0	370	0.828	127	
	35	C.C	7.20	0.9	9.7	13.6	1.0	470	0.524	157	
	50	C.C	8.30	1.0	11.0	15.6	1.1	650	0.387	196	
	70	C.C	10.00	1.1	12.9	17.7	1.2	880	0.268	242	
	95	C.C	11.80	1.1	14.7	19.6	1.3	1,150	0.1930	293	
	120	C.C	13.20	1.2	16.3	21.4	1.4	1,430	0.1530	339	
	150	C.C	14.80	1.4	18.3	23.7	1.4	1,720	0.1240	389	
	185	C.C	16.35	1.6	20.3	25.7	1.5	2,110	0.0991	444	
	240	C.C	18.85	1.7	23.0	28.6	1.6	2,720	0.0754	522	
	300	C.C	20.90	1.8	25.2	31.0	1.7	3,350	0.0601	601	
	2	1.5	7 / 0.53	1.59	0.7	6.8	10.4	0.9	140	12.1	20
		2.5	7 / 0.67	2.01	0.7	7.6	11.2	0.9	170	7.41	26
4		7 / 0.85	2.55	0.7	8.8	12.6	1.0	220	4.61	34	
6		7 / 1.04	3.12	0.7	9.8	13.7	1.0	280	3.08	44	
10		7 / 1.35	4.05	0.7	11.8	16.4	1.2	430	1.830	61	
16		C.C	4.80	0.7	13.2	18.1	1.2	580	1.150	82	
25		C.C	6.10	0.9	16.6	21.7	1.4	840	0.828	108	
35		C.C	7.20	0.9	18.8	23.9	1.5	1,080	0.524	133	
50		C.C	8.30	1.0	21.4	26.8	1.6	1,400	0.387	167	
70		C.C	10.00	1.1	25.2	31.0	1.7	1,920	0.268	206	
95	C.C	11.80	1.1	28.8	34.8	1.9	2,520	0.1930	249		
3	1.5	7 / 0.53	1.59	0.7	7.3	10.9	0.9	170	12.1	16	
	2.5	7 / 0.67	2.01	0.7	8.1	11.9	1.0	210	7.41	21	
	4	7 / 0.85	2.55	0.7	9.4	13.3	1.0	270	4.61	28	
	6	7 / 1.04	3.12	0.7	10.5	15.1	1.1	380	3.08	36	
	10	7 / 1.35	4.05	0.7	12.7	17.5	1.2	550	1.830	50	
	16	C.C	4.80	0.7	14.2	19.1	1.3	750	1.150	67	
	25	C.C	6.10	0.9	17.8	23.2	1.4	1,110	0.828	89	
	35	C.C	7.20	0.9	20.2	25.6	1.5	1,450	0.524	110	
	50	C.C	8.30	1.0	23.0	28.6	1.6	1,890	0.387	137	
	70	C.C	10.00	1.1	27.1	32.9	1.8	2,590	0.268	169	
	95	C.C	11.80	1.1	31.0	37.8	2.0	3,540	0.1930	205	
	120	C.C	13.20	1.2	34.4	41.6	2.2	4,420	0.1530	237	
	150	C.C	14.80	1.4	38.7	46.2	2.3	5,330	0.1240	272	
	185	C.C	16.35	1.6	43.4	51.3	2.6	6,560	0.0991	311	
	240	C.C	18.85	1.7	49.3	57.9	2.8	8,540	0.0754	365	
	300	C.C	20.90	1.8	54.0	62.8	3.0	10,490	0.0601	421	

* C.C means circular compacted conductor.

Cable Type 0.6/1kV TFOI

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Plain	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
	mm²	No./mm	mm			mm	±mm			
4	1.5	7 / 0.53	1.59	0.7	8.1	11.9	0.976	200	12.1	16
	2.5	7 / 0.67	2.01	0.7	9.0	12.9	1.016	250	7.41	21
	4	7 / 0.85	2.55	0.7	10.5	15.1	1.104	370	4.61	28
	6	7 / 1.04	3.12	0.7	11.7	16.3	1.152	470	3.08	36
	10	7 / 1.35	4.05	0.7	14.1	19.0	1.260	670	1.83	50
	16	C.C *	4.80	0.7	15.8	20.9	1.336	950	1.15	67
	25	C.C	6.10	0.9	19.9	25.3	1.512	1,410	0.828	89
	35	C.C	7.20	0.9	22.6	28.2	1.628	1,850	0.524	110
	50	C.C	8.30	1.0	25.7	31.5	1.760	2,420	0.387	137
	70	C.C	10.00	1.1	30.3	37.1	1.984	3,440	0.268	169
	95	C.C	11.80	1.1	34.6	41.8	2.172	4,570	0.193	205
	120	C.C	13.20	1.2	38.5	46.0	2.340	5,700	0.153	237
	150	C.C	14.80	1.4	43.7	51.6	2.564	6,920	0.124	272
	185	C.C	16.35	1.6	48.6	57.0	2.780	8,510	0.0991	311
	240	C.C	18.85	1.7	55.1	64.1	3.064	11,080	0.0754	365
	300	C.C	20.90	1.8	60.4	69.9	3.296	13,680	0.0601	421
	5	7 / 0.53	1.59	0.7	9.0	12.9	1.0	230		12
	6	7 / 0.53	1.59	0.7	9.9	13.8	1.1	260		12
7	7 / 0.53	1.59	0.7	9.9	13.8	1.1	280		11	
8	7 / 0.53	1.59	0.7	10.8	15.4	1.1	350		11	
9	7 / 0.53	1.59	0.7	11.8	16.4	1.2	390		10	
10	7 / 0.53	1.59	0.7	13.0	17.9	1.2	450		10	
12	7 / 0.53	1.59	0.7	13.5	18.4	1.2	490		9	
14	7 / 0.53	1.59	0.7	14.3	19.2	1.3	540		9	
15	1.5	7 / 0.53	1.59	0.7	14.7	19.6	1.3	570	12.1	9
16	7 / 0.53	1.59	0.7	15.2	20.3	1.3	610		8	
19	7 / 0.53	1.59	0.7	16.1	21.2	1.3	680		8	
20	7 / 0.53	1.59	0.7	16.7	21.8	1.4	710		8	
24	7 / 0.53	1.59	0.7	19.2	24.3	1.5	860		7	
27	7 / 0.53	1.59	0.7	19.7	24.8	1.5	920		7	
30	7 / 0.53	1.59	0.7	20.5	25.9	1.5	1,010		7	
33	7 / 0.53	1.59	0.7	21.4	26.8	1.6	1,080		7	
37	7 / 0.53	1.59	0.7	22.3	27.9	1.6	1,190		7	
5	7 / 0.67	2.01	0.7	10.1	14.7	1.1	330		17	
6	7 / 0.67	2.01	0.7	11.1	15.7	1.1	380		17	
7	7 / 0.67	2.01	0.7	11.1	15.7	1.1	400		15	
8	7 / 0.67	2.01	0.7	12.2	16.8	1.2	450		15	
9	7 / 0.67	2.01	0.7	13.2	18.1	1.2	510		14	
10	7 / 0.67	2.01	0.7	14.6	19.5	1.3	570		13	
12	7 / 0.67	2.01	0.7	15.1	20.2	1.3	640		12	
14	7 / 0.67	2.01	0.7	16.0	21.1	1.3	710		12	
15	2.5	7 / 0.67	2.01	0.7	16.5	21.6	1.4	750	7.41	11
16	7 / 0.67	2.01	0.7	17.1	22.2	1.4	790		11	
19	7 / 0.67	2.01	0.7	18.1	23.5	1.4	900		11	
20	7 / 0.67	2.01	0.7	18.7	23.8	1.5	950		10	
24	7 / 0.67	2.01	0.7	21.6	27.0	1.6	1,150		10	
27	7 / 0.67	2.01	0.7	22.1	27.5	1.6	1,240		9	
30	7 / 0.67	2.01	0.7	23.0	28.6	1.6	1,350		9	
33	7 / 0.67	2.01	0.7	24.1	29.7	1.7	1,460		9	
37	7 / 0.67	2.01	0.7	25.1	30.9	1.7	1,610		9	

* C.C means circular compacted conductor.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Flame Retardant
Power & Control Cable (Un-Armored)

0.6/1kV TXXI

Cable Designation

- 0.6/1kV TXXI

Application

- This cable is designed for power, lighting & control circuits up to 0.6/1kV.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 353
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Covering	X	Non
Aarmor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color : Black

Core Identification	No. of Cores	Method 1 (without ground core)	Method 2 (with ground core)
	1C	Black	-
2C	Red, Black	-	
3C / 3G	Red, Yellow, Blue	Red, Black, Green/Yellow	
4C / 4G	Red, Yellow, Blue, Black	Red, Yellow, Blue, Green/Yellow	
5C / 5G	Black number on White insulation	Red, Yellow, Blue, Black, Green/Yellow	
6 and over (6G and over)	Black number on White insulation	Black number on White insulation, Green/Yellow	

Note) 1. The letter "G" means that the cable has the ground core.
 2. The other color scheme may be applicable when purchaser required.

Cable Type 0.6/1kV TXXI

No. of Cores	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Plain	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.		Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	A
1	1.5	7 / 0.53	1.59	0.7	5.4	0.8	40	12.1	23
	2.5	7 / 0.67	2.01	0.7	5.8	0.8	60	7.41	40
	4	7 / 0.85	2.55	0.7	6.4	0.8	70	4.61	51
	6	7 / 1.04	3.12	0.7	6.9	0.8	100	3.08	52
	10	7 / 1.35	4.05	0.7	8.0	0.8	140	1.830	72
	16	C.C *	4.80	0.7	8.9	0.9	200	1.150	96
	25	C.C	6.10	0.9	10.6	0.9	300	0.828	127
	35	C.C	7.20	0.9	11.9	1.0	410	0.524	157
	50	C.C	8.30	1.0	13.3	1.0	530	0.387	196
	70	C.C	10.00	1.1	15.4	1.1	750	0.268	242
	95	C.C	11.80	1.1	17.4	1.2	1,010	0.1930	293
	120	C.C	13.20	1.2	19.1	1.3	1,260	0.1530	339
150	C.C	14.80	1.4	21.3	1.4	1,540	0.1240	389	
185	C.C	16.35	1.6	23.6	1.4	1,900	0.0991	444	
240	C.C	18.85	1.7	26.3	1.6	2,490	0.0754	522	
300	C.C	20.90	1.8	28.7	1.6	3,100	0.0601	601	
2	1.5	7 / 0.53	1.59	0.7	9.0	0.9	90	12.1	20
	2.5	7 / 0.67	2.01	0.7	9.8	0.9	120	7.41	26
	4	7 / 0.85	2.55	0.7	11.0	0.9	160	4.61	34
	6	7 / 1.04	3.12	0.7	12.2	1.0	210	3.08	44
	10	7 / 1.35	4.05	0.7	14.5	1.1	320	1.830	61
	16	C.C	4.80	0.7	15.9	1.1	450	1.150	82
	25	C.C	6.10	0.9	19.6	1.3	680	0.828	108
	35	C.C	7.20	0.9	22.0	1.4	900	0.524	133
	50	C.C	8.30	1.0	24.6	1.5	1,190	0.387	167
	70	C.C	10.00	1.1	28.9	1.7	1,680	0.268	206
	95	C.C	11.80	1.1	32.7	1.8	2,240	0.1930	249
	3	1.5	7 / 0.53	1.59	0.7	9.5	0.9	110	12.1
2.5		7 / 0.67	2.01	0.7	10.3	0.9	150	7.41	21
4		7 / 0.85	2.55	0.7	11.8	1.0	210	4.61	28
6		7 / 1.04	3.12	0.7	13.0	1.0	280	3.08	36
10		7 / 1.35	4.05	0.7	15.4	1.1	420	1.830	50
16		C.C	4.80	0.7	17.1	1.2	620	1.150	67
25		C.C	6.10	0.9	21.0	1.3	940	0.828	89
35		C.C	7.20	0.9	23.7	1.4	1,250	0.524	110
50		C.C	8.30	1.0	26.5	1.6	1,660	0.387	137
70		C.C	10.00	1.1	31.0	1.7	2,340	0.268	169
95		C.C	11.80	1.1	35.1	1.9	3,150	0.1930	205
120		C.C	13.20	1.2	39.0	2.1	3,990	0.1530	237
150	C.C	14.80	1.4	43.5	2.2	4,860	0.1240	272	
185	C.C	16.35	1.6	48.3	2.4	6,030	0.0991	311	
240	C.C	18.85	1.7	54.6	2.7	7,900	0.0754	365	

* C.C means circular compacted conductor.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 0.6/1kV TXXI

No. of Cores	Conductor			Thickness of Insulation mm	Overall Diameter		Cable Weight kg/km	Conductor Resistance (at 20°C)(max.) Plain Ω/km	Current Ratings (at 45°C) A
	Nominal Area mm ²	Strand No./mm	Dia. mm		Nominal mm	Tolerance ±mm			
4	1.5	7 / 0.53	1.59	0.7	10.3	0.9	140	12.1	16
	2.5	7 / 0.67	2.01	0.7	11.2	0.9	180	7.41	21
	4	7 / 0.85	2.55	0.7	13.0	1.0	260	4.61	28
	6	7 / 1.04	3.12	0.7	14.4	1.1	350	3.08	36
	10	7 / 1.35	4.05	0.7	16.8	1.2	530	1.830	50
	16	C.C *	4.80	0.7	18.8	1.3	790	1.150	67
	25	C.C	6.10	0.9	23.4	1.4	1,220	0.828	89
	35	C.C	7.20	0.9	26.1	1.5	1,630	0.524	110
	50	C.C	8.30	1.0	29.4	1.7	2,170	0.387	137
	70	C.C	10.00	1.1	34.4	1.9	3,060	0.268	169
95	C.C	11.80	1.1	39.2	2.1	4,140	0.1930	205	
5	7 / 0.53	1.59	0.7	11.2	1.0	170		12	
6	7 / 0.53	1.59	0.7	12.3	1.0	200		12	
7	7 / 0.53	1.59	0.7	12.3	1.0	210		11	
8	7 / 0.53	1.59	0.7	13.3	1.1	240		11	
9	7 / 0.53	1.59	0.7	14.5	1.1	280		10	
10	7 / 0.53	1.59	0.7	15.7	1.2	310		10	
12	7 / 0.53	1.59	0.7	16.2	1.2	350		9	
14	1.5	7 / 0.53	1.59	0.7	17.2	1.3	410	12.1	9
16	7 / 0.53	1.59	0.7	18.2	1.3	450		8	
19	7 / 0.53	1.59	0.7	19.1	1.4	520		8	
20	7 / 0.53	1.59	0.7	19.9	1.4	550		8	
24	7 / 0.53	1.59	0.7	22.6	1.5	680		7	
27	7 / 0.53	1.59	0.7	23.2	1.6	740		7	
30	7 / 0.53	1.59	0.7	23.7	1.6	800		7	
37	7 / 0.53	1.59	0.7	25.8	1.7	970		7	
5	7 / 0.67	2.01	0.7	12.5	1.0	230		17	
6	7 / 0.67	2.01	0.7	13.6	1.0	260		17	
7	7 / 0.67	2.01	0.7	13.6	1.0	290		15	
8	7 / 0.67	2.01	0.7	14.9	1.1	340		15	
9	7 / 0.67	2.01	0.7	15.9	1.1	380		14	
10	7 / 0.67	2.01	0.7	17.5	1.2	430		13	
12	7 / 0.67	2.01	0.7	18.1	1.2	490		12	
14	2.5	7 / 0.67	2.01	0.7	19.0	1.3	550	7.41	12
16	7 / 0.67	2.01	0.7	20.3	1.3	630		11	
19	7 / 0.67	2.01	0.7	21.3	1.4	730		11	
20	7 / 0.67	2.01	0.7	21.9	1.4	760		10	
24	7 / 0.67	2.01	0.7	24.8	1.5	940		10	
27	7 / 0.67	2.01	0.7	25.6	1.5	1,030		9	
30	7 / 0.67	2.01	0.7	26.5	1.6	1,130		9	
37	7 / 0.67	2.01	0.7	28.8	1.7	1,370		9	

* C.C means circular compacted conductor.



Light Weight
Fire Resistance
Power & Control Cable (Armored)

0.6/1kV SFOI

Cable Designation

• 0.6/1kV SFOI

Application

- This cable is designed for power, lighting & control circuits up to 0.6/1kV.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 353
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Covering	F	Halogen Free Tape (Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color : Black

Core Identification	No. of Cores	Method 1 (without ground core)	Method 2 (with ground core)
	1C	Black	-
2C	Red, Black	-	-
3C / 3G	Red, Yellow, Blue	-	Red, Black, Green/Yellow
4C / 4G	Red, Yellow, Blue, Black	-	Red, Yellow, Blue, Green/Yellow
5C / 5G	Black number on White insulation	-	Red, Yellow, Blue, Black, Green/Yellow
6 and over (6G and over)	Black number on White insulation	-	Black number on White insulation, Green/Yellow

Note) 1. The letter "G" means that the cable has the ground core.
2. The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 0.6/1kV SFOI

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	A	
1	1.5	7/0.53	1.59	0.7	4.3	7.7	0.8	90	12.1	23
	2.5	7/0.67	2.01	0.7	4.7	8.1	0.8	100	7.41	40
	4	7/0.85	2.55	0.7	5.3	8.9	0.9	130	4.61	51
	6	7/1.04	3.12	0.7	5.9	9.5	0.9	150	3.08	52
	10	7/1.35	4.05	0.7	6.8	10.4	0.9	200	1.830	72
	16	C.C*	4.80	0.7	7.5	11.1	0.9	270	1.150	96
	25	C.C	6.10	0.9	9.2	13.1	1.0	390	0.828	127
	35	C.C	7.20	0.9	10.3	14.9	1.1	530	0.524	157
	50	C.C	8.30	1.0	11.6	16.2	1.1	670	0.387	196
	70	C.C	10.00	1.1	13.5	18.4	1.2	910	0.268	242
	95	C.C	11.80	1.1	15.3	20.4	1.3	1,190	0.1930	293
	120	C.C	13.20	1.2	16.9	22.0	1.4	1,460	0.1530	339
	150	C.C	14.80	1.4	18.9	24.0	1.5	1,750	0.1240	389
	185	C.C	16.35	1.6	20.9	26.3	1.6	2,140	0.0991	444
	240	C.C	18.85	1.7	23.6	29.2	1.7	2,760	0.0754	522
300	C.C	20.90	1.8	25.8	31.6	1.8	3,390	0.0601	601	
2	1.5	7/0.53	1.59	0.7	8.0	11.8	1.0	170	12.1	20
	2.5	7/0.67	2.01	0.7	8.8	12.6	1.0	200	7.41	26
	4	7/0.85	2.55	0.7	10.0	13.9	1.1	250	4.61	34
	6	7/1.04	3.12	0.7	11.2	15.8	1.1	350	3.08	44
	10	7/1.35	4.05	0.7	13.0	17.9	1.2	480	1.830	61
	16	C.C	4.80	0.7	14.4	19.3	1.3	620	1.150	82
	25	C.C	6.10	0.9	17.8	23.2	1.4	900	0.828	108
	35	C.C	7.20	0.9	20.0	25.4	1.5	1,150	0.524	133
	50	C.C	8.30	1.0	22.6	28.2	1.6	1,470	0.387	167
	70	C.C	10.00	1.1	26.4	32.2	1.8	1,980	0.268	206
95	C.C	11.80	1.1	30.0	36.3	2.0	2,610	0.1930	249	
3	1.5	7/0.53	1.59	0.7	8.6	12.4	1.0	200	12.1	16
	2.5	7/0.67	2.01	0.7	9.4	13.3	1.0	240	7.41	21
	4	7/0.85	2.55	0.7	10.7	15.3	1.1	350	4.61	28
	6	7/1.04	3.12	0.7	12.0	16.6	1.2	430	3.08	36
	10	7/1.35	4.05	0.7	14.0	18.9	1.3	600	1.830	50
	16	C.C	4.80	0.7	15.5	20.6	1.3	810	1.150	67
	25	C.C	6.10	0.9	19.1	24.2	1.5	1,170	0.828	89
	35	C.C	7.20	0.9	21.5	26.9	1.6	1,510	0.524	110
	50	C.C	8.30	1.0	24.3	29.9	1.7	1,960	0.387	137
	70	C.C	10.00	1.1	28.4	34.4	1.9	2,690	0.268	169
	95	C.C	11.80	1.1	32.3	39.3	2.1	3,650	0.1930	205
	120	C.C	13.20	1.2	35.7	42.9	2.2	4,520	0.1530	237
	150	C.C	14.80	1.4	40.0	47.7	2.4	5,470	0.1240	272
	185	C.C	16.35	1.6	44.7	52.8	2.6	6,710	0.0991	311
	240	C.C	18.85	1.7	50.6	59.2	2.9	8,670	0.0754	365

* C.C means circular compacted conductor.

Cable Type 0.6/1kV SFOI

No. of Cores	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.			Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	A	
4	1.5	7/0.53	1.59	0.7	9.5	13.4	1.0	230	12.1	16
	2.5	7/0.67	2.01	0.7	10.5	15.1	1.1	330	7.41	21
	4	7/0.85	2.55	0.7	11.9	16.5	1.2	420	4.61	28
	6	7/1.04	3.12	0.7	13.4	18.3	1.2	530	3.08	36
	10	7/1.35	4.05	0.7	15.6	20.7	1.3	740	1.830	50
	16	C.C*	4.80	0.7	17.3	22.6	1.4	1,020	1.150	67
	25	C.C	6.10	0.9	21.4	26.8	1.6	1,490	0.828	89
	35	C.C	7.20	0.9	24.0	29.6	1.7	1,930	0.524	110
	50	C.C	8.30	1.0	27.2	33.0	1.8	2,510	0.387	137
	70	C.C	10.00	1.1	31.7	38.5	2.0	3,540	0.268	169
	95	C.C	11.80	1.1	36.1	43.3	2.2	4,690	0.1930	205
	120	C.C	13.20	1.2	40.0	47.7	2.4	5,850	0.1530	237
	150	C.C	14.80	1.4	45.2	53.3	2.6	7,080	0.1240	272
	185	C.C	16.35	1.6	50.0	58.6	2.8	8,690	0.0991	311
	5	1.5	7/0.53	1.59	0.7	10.6	15.2	1.1	310	12.1
6	7/0.53		1.59	0.7	11.7	16.3	1.2	360	12	
7	7/0.53		1.59	0.7	11.7	16.3	1.2	380	11	
8	7/0.53		1.59	0.7	12.8	17.6	1.2	430	11	
9	7/0.53		1.59	0.7	14.0	18.9	1.3	480	10	
10	7/0.53		1.59	0.7	15.4	20.5	1.3	540	10	
12	7/0.53		1.59	0.7	16.0	21.1	1.3	590	9	
14	7/0.53		1.59	0.7	16.9	22.0	1.4	660	9	
16	7/0.53		1.59	0.7	18.0	23.4	1.4	740	8	
19	7/0.53		1.59	0.7	19.1	24.2	1.5	820	8	
20	7/0.53		1.59	0.7	19.8	25.1	1.5	870	8	
24	7/0.53		1.59	0.7	22.8	28.4	1.6	1,060	7	
27	7/0.53		1.59	0.7	23.4	29.0	1.7	1,130	7	
30	7/0.53		1.59	0.7	24.3	29.9	1.7	1,220	7	
33	7/0.53		1.59	0.7	25.4	31.2	1.7	1,330	7	
37	7/0.53	1.59	0.7	26.5	32.3	1.8	1,440	7		
5	2.5	7/0.67	2.01	0.7	11.7	16.3	1.2	380	7.41	17
6		7/0.67	2.01	0.7	12.9	17.7	1.2	450		17
7		7/0.67	2.01	0.7	12.9	17.7	1.2	470		15
8		7/0.67	2.01	0.7	14.1	19.0	1.3	530		15
9		7/0.67	2.01	0.7	15.4	20.5	1.3	600		14
10		7/0.67	2.01	0.7	17.0	22.1	1.4	670		13
12		7/0.67	2.01	0.7	17.6	23.0	1.4	750		12
14		7/0.67	2.01	0.7	18.7	23.8	1.5	840		12
15		7/0.67	2.01	0.7	19.3	24.4	1.5	890		11
16		7/0.67	2.01	0.7	19.9	25.3	1.5	940		11
19		7/0.67	2.01	0.7	21.1	26.5	1.6	1,060		11
20		7/0.67	2.01	0.7	21.8	27.2	1.6	1,110		10
24		7/0.67	2.01	0.7	25.2	31.0	1.7	1,370		10
27		7/0.67	2.01	0.7	25.8	31.6	1.8	1,470		9
30		7/0.67	2.01	0.7	26.9	32.7	1.8	1,590		9
33	7/0.67	2.01	0.7	28.1	34.1	1.9	1,730	9		
37	7/0.67	2.01	0.7	29.3	35.4	1.9	1,890	9		

* C.C means circular compacted conductor.

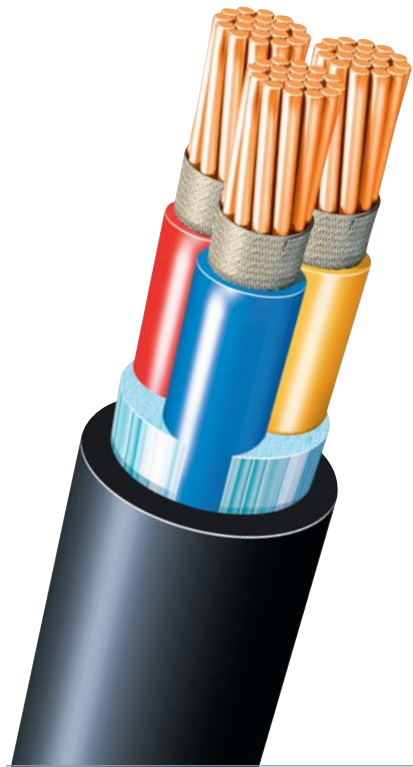
Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Fire Resistance
Power & Control Cable (Un-Armored)

0.6/1kV SXXI

Cable Designation

- 0.6/1kV SXXI

Application

- This cable is designed for power, lighting & control circuits up to 0.6/1kV.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 353
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Covering	X	Non
Armor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color : Black

Core Identification	No. of Cores	Method 1 (without ground core)	Method 2 (with ground core)
	1C	Black	-
2C	Red, Black	-	
3C / 3G	Red, Yellow, Blue	Red, Black, Green/Yellow	
4C / 4G	Red, Yellow, Blue, Black	Red, Yellow, Blue, Green/Yellow	
5C / 5G	Black number on White insulation	Red, Yellow, Blue, Black, Green/Yellow	
6 and over (6G and over)	Black number on White insulation	Black number on White insulation, Green/Yellow	

Note) 1. The letter "G" means that the cable has the ground core.
 2. The other color scheme may be applicable when purchaser required.

Cable Type 0.6/1kV SXXI

No. of Cores	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Plain	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.		Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	A
1	1.5	7 / 0.53	1.59	0.7	6.0	0.8	50	12.1	23
	2.5	7 / 0.67	2.01	0.7	6.4	0.8	60	7.41	40
	4	7 / 0.85	2.55	0.7	7.0	0.8	80	4.61	51
	6	7 / 1.04	3.12	0.7	7.7	0.8	110	3.08	52
	10	7 / 1.35	4.05	0.7	8.6	0.8	150	1.830	72
	16	C.C *	4.80	0.7	9.5	0.9	220	1.150	96
	25	C.C	6.10	0.9	11.2	0.9	320	0.828	127
	35	C.C	7.20	0.9	12.5	1.0	420	0.524	157
	50	C.C	8.30	1.0	13.9	1.1	550	0.387	196
	70	C.C	10.00	1.1	16.0	1.1	770	0.268	242
	95	C.C	11.80	1.1	18.1	1.2	1,030	0.1930	293
	120	C.C	13.20	1.2	19.9	1.3	1,300	0.1530	339
150	C.C	14.80	1.4	21.9	1.4	1,570	0.1240	389	
185	C.C	16.35	1.6	23.9	1.5	1,940	0.0991	444	
240	C.C	18.85	1.7	26.9	1.6	2,530	0.0754	522	
300	C.C	20.90	1.8	29.3	1.7	3,140	0.0601	601	
2	1.5	7 / 0.53	1.59	0.7	10.2	0.9	110	12.1	20
	2.5	7 / 0.67	2.01	0.7	11.0	0.9	140	7.41	26
	4	7 / 0.85	2.55	0.7	12.4	1.0	190	4.61	34
	6	7 / 1.04	3.12	0.7	13.7	1.0	240	3.08	44
	10	7 / 1.35	4.05	0.7	15.7	1.1	340	1.830	61
	16	C.C	4.80	0.7	17.3	1.2	490	1.150	82
	25	C.C	6.10	0.9	21.0	1.3	720	0.828	108
	35	C.C	7.20	0.9	23.5	1.4	950	0.524	133
	50	C.C	8.30	1.0	26.1	1.5	1,250	0.387	167
	70	C.C	10.00	1.1	30.1	1.7	1,730	0.268	206
	95	C.C	11.80	1.1	34.1	1.9	2,320	0.1930	249
	3	1.5	7 / 0.53	1.59	0.7	10.8	0.9	140	12.1
2.5		7 / 0.67	2.01	0.7	11.8	1.0	180	7.41	21
4		7 / 0.85	2.55	0.7	13.2	1.0	240	4.61	28
6		7 / 1.04	3.12	0.7	14.7	1.1	310	3.08	36
10		7 / 1.35	4.05	0.7	16.7	1.2	450	1.830	50
16		C.C	4.80	0.7	18.5	1.2	650	1.150	67
25		C.C	6.10	0.9	22.3	1.4	980	0.828	89
35		C.C	7.20	0.9	24.7	1.5	1,300	0.524	110
50		C.C	8.30	1.0	28.0	1.6	1,730	0.387	137
70		C.C	10.00	1.1	32.3	1.8	2,420	0.268	169
95		C.C	11.80	1.1	36.7	2.0	3,250	0.1930	205
120		C.C	13.20	1.2	40.3	2.1	4,080	0.1530	237
150	C.C	14.80	1.4	45.0	2.3	4,970	0.1240	272	
185	C.C	16.35	1.6	49.8	2.5	6,160	0.0991	311	
240	C.C	18.85	1.7	56.2	2.7	8,050	0.0754	365	

* C.C means circular compacted conductor.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 0.6/1kV SXXI

No. of Cores	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Plain	Current Ratings (at 45°C)
	Nominal Area	Strand	Dia.		Nominal	Tolerance			
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	A
4	1.5	7 / 0.53	1.59	0.7	11.9	1.0	170	12.1	16
	2.5	7 / 0.67	2.01	0.7	13.0	1.0	220	7.41	21
	4	7 / 0.85	2.55	0.7	14.6	1.1	300	4.61	28
	6	7 / 1.04	3.12	0.7	16.1	1.1	390	3.08	36
	10	7 / 1.35	4.05	0.7	18.6	1.2	590	1.830	50
	16	C.C *	4.80	0.7	20.5	1.3	850	1.150	67
	25	C.C	6.10	0.9	24.6	1.5	1,280	0.828	89
	35	C.C	7.20	0.9	27.5	1.6	1,700	0.524	110
	50	C.C	8.30	1.0	31.1	1.7	2,260	0.387	137
	70	C.C	10.00	1.1	36.1	1.9	3,160	0.268	169
95	C.C	11.80	1.1	40.7	2.1	4,240	0.1930	205	
5	7 / 0.53	1.59	0.7	13.1	1.0	200		12	
6	7 / 0.53	1.59	0.7	14.4	1.1	240		12	
7	7 / 0.53	1.59	0.7	14.4	1.1	260		11	
8	7 / 0.53	1.59	0.7	15.5	1.1	300		11	
9	7 / 0.53	1.59	0.7	16.7	1.2	340		10	
10	7 / 0.53	1.59	0.7	18.4	1.2	390		10	
12	7 / 0.53	1.59	0.7	19.0	1.3	440		9	
14	1.5	7 / 0.53	1.59	0.7	20.1	1.3	500	12.1	9
16	7 / 0.53	1.59	0.7	21.2	1.3	560		8	
19	7 / 0.53	1.59	0.7	22.3	1.4	640		8	
20	7 / 0.53	1.59	0.7	23.3	1.4	680		8	
24	7 / 0.53	1.59	0.7	26.3	1.6	840		7	
27	7 / 0.53	1.59	0.7	26.9	1.6	910		7	
30	7 / 0.53	1.59	0.7	28.0	1.6	1,000		7	
37	7 / 0.53	1.59	0.7	30.2	1.7	1,190		7	
5	7 / 0.67	2.01	0.7	14.4	1.1	270		17	
6	7 / 0.67	2.01	0.7	15.6	1.1	320		17	
7	7 / 0.67	2.01	0.7	15.6	1.1	340		15	
8	7 / 0.67	2.01	0.7	16.8	1.2	390		15	
9	7 / 0.67	2.01	0.7	18.4	1.2	450		14	
10	7 / 0.67	2.01	0.7	20.2	1.3	510		13	
12	7 / 0.67	2.01	0.7	20.8	1.3	580		12	
14	2.5	7 / 0.67	2.01	0.7	21.9	1.4	660	7.41	12
16	7 / 0.67	2.01	0.7	23.4	1.4	750		11	
19	7 / 0.67	2.01	0.7	24.3	1.5	860		11	
20	7 / 0.67	2.01	0.7	25.3	1.5	910		10	
24	7 / 0.67	2.01	0.7	28.9	1.7	1,120		10	
27	7 / 0.67	2.01	0.7	29.5	1.7	1,220		9	
30	7 / 0.67	2.01	0.7	30.8	1.7	1,350		9	
37	7 / 0.67	2.01	0.7	33.4	1.8	1,620		9	

* C.C means circular compacted conductor.



Light Weight

Flame Retardant Telephone & Instrument Cable (Non Screen)

150/250V TFOI

Cable Designation

- 150/250V TFOI

Application

- This cable is designed for control & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Standards applied

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Covering	F	Halogen Free Tape (Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- 1) Each pair/triad - Pairs : Black, White
- Triads : Black, White, Red

Core Identification

- 2) Multi pair/triad cables
Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
- 3) The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V TFOI

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km	
1 P		7 / 0.37	1.11	0.5	4.9	8.1	0.8	90			
2 P		7 / 0.37	1.11	0.5	5.9	9.3	0.9	130			
3 P		7 / 0.37	1.11	0.5	8.8	12.4	1.0	200			
4 P		7 / 0.37	1.11	0.5	9.5	13.1	1.0	230			
5 P		7 / 0.37	1.11	0.5	10.9	15.2	1.1	320			
6 P		7 / 0.37	1.11	0.5	11.8	16.1	1.1	350			
7 P		7 / 0.37	1.11	0.5	11.8	16.1	1.1	370			
8 P		7 / 0.37	1.11	0.5	12.7	17.2	1.2	420			
10 P	0.75	7 / 0.37	1.11	0.5	14.6	19.1	1.3	500	26.0	100	0.72
12 P		7 / 0.37	1.11	0.5	15.3	20.0	1.3	560			
14 P		7 / 0.37	1.11	0.5	15.9	20.6	1.3	610			
16 P		7 / 0.37	1.11	0.5	17.3	22.2	1.4	690			
19 P		7 / 0.37	1.11	0.5	18.7	23.6	1.4	790			
20 P		7 / 0.37	1.11	0.5	18.7	23.6	1.4	800			
24 P		7 / 0.37	1.11	0.5	21.7	26.8	1.6	980			
30 P		7 / 0.37	1.11	0.5	23.8	29.1	1.7	1,160			
37 P		7 / 0.37	1.11	0.5	25.6	31.1	1.7	1,360			
1 P		7 / 0.43	1.29	0.5	5.3	8.7	0.8	110			
2 P		7 / 0.43	1.29	0.5	6.3	9.7	0.9	150			
3 P		7 / 0.43	1.29	0.5	9.6	13.2	1.0	230			
4 P		7 / 0.43	1.29	0.5	10.3	14.6	1.1	310			
5 P		7 / 0.43	1.29	0.5	11.8	16.1	1.1	360			
6 P		7 / 0.43	1.29	0.5	12.8	17.3	1.2	420			
7 P		7 / 0.43	1.29	0.5	12.8	17.3	1.2	440			
8 P		7 / 0.43	1.29	0.5	13.8	18.3	1.2	490			
10 P	1.0	7 / 0.43	1.29	0.5	15.8	20.5	1.3	590	19.2	110	0.72
12 P		7 / 0.43	1.29	0.5	16.6	21.3	1.4	660			
14 P		7 / 0.43	1.29	0.5	17.3	22.2	1.4	730			
16 P		7 / 0.43	1.29	0.5	18.8	23.7	1.4	820			
19 P		7 / 0.43	1.29	0.5	20.3	25.4	1.5	940			
20 P		7 / 0.43	1.29	0.5	20.3	25.4	1.5	960			
24 P		7 / 0.43	1.29	0.5	23.6	28.9	1.7	1,170			
30 P		7 / 0.43	1.29	0.5	25.8	31.3	1.8	1,400			
37 P		7 / 0.43	1.29	0.5	27.8	33.5	1.8	1,640			
1 P		7 / 0.53	1.59	0.6	6.3	9.7	0.9	140			
2 P		7 / 0.53	1.59	0.6	7.5	10.9	0.9	190			
3 P		7 / 0.53	1.59	0.6	11.4	15.7	1.1	340			
4 P		7 / 0.53	1.59	0.6	12.3	16.8	1.2	400			
5 P		7 / 0.53	1.59	0.6	14.1	18.6	1.2	480			
6 P		7 / 0.53	1.59	0.6	15.3	20.0	1.3	550			
7 P		7 / 0.53	1.59	0.6	15.3	20.0	1.3	590			
8 P		7 / 0.53	1.59	0.6	16.5	21.2	1.3	650			
10 P	1.5	7 / 0.53	1.59	0.6	18.9	23.8	1.5	800	12.8	120	0.66
12 P		7 / 0.53	1.59	0.6	19.8	24.9	1.5	900			
14 P		7 / 0.53	1.59	0.6	20.7	25.8	1.5	990			
16 P		7 / 0.53	1.59	0.6	22.5	27.8	1.6	1,130			
19 P		7 / 0.53	1.59	0.6	24.3	29.6	1.7	1,290			
20 P		7 / 0.53	1.59	0.6	24.3	29.6	1.7	1,320			
24 P		7 / 0.53	1.59	0.6	28.2	33.9	1.9	1,630			
30 P		7 / 0.53	1.59	0.6	30.9	37.3	2.0	2,040			
37 P		7 / 0.53	1.59	0.6	33.3	39.9	2.1	2,390			

Cable Type 250V TFOI

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km	
1 T		7 / 0.37	1.11	0.5	5.3	8.7	0.8	110			
2 T		7 / 0.37	1.11	0.5	9.0	12.6	1.0	210			
3 T		7 / 0.37	1.11	0.5	9.7	13.3	1.0	240			
4 T		7 / 0.37	1.11	0.5	10.9	15.2	1.1	330			
5 T		7 / 0.37	1.11	0.5	12.3	16.8	1.2	400			
6 T		7 / 0.37	1.11	0.5	14.1	18.6	1.2	470			
7 T		7 / 0.37	1.11	0.5	14.1	18.6	1.2	490			
8 T		7 / 0.37	1.11	0.5	15.3	20.0	1.3	560			
10 T	0.75	7 / 0.37	1.11	0.5	17.6	22.5	1.4	690	26.0	100	0.72
12 T		7 / 0.37	1.11	0.5	18.7	23.6	1.4	770			
14 T		7 / 0.37	1.11	0.5	19.6	24.5	1.5	850			
16 T		7 / 0.37	1.11	0.5	21.0	26.1	1.5	950			
19 T		7 / 0.37	1.11	0.5	22.9	28.2	1.6	1,100			
20 T		7 / 0.37	1.11	0.5	23.3	28.6	1.6	1,140			
24 T		7 / 0.37	1.11	0.5	25.6	31.1	1.7	1,340			
30 T		7 / 0.37	1.11	0.5	28.6	34.3	1.9	1,620			
32 T		7 / 0.37	1.11	0.5	29.7	35.4	1.9	1,720			
1 T		7 / 0.43	1.29	0.5	5.7	9.1	0.9	130			
2 T		7 / 0.43	1.29	0.5	9.8	13.4	1.0	240			
3 T		7 / 0.43	1.29	0.5	10.6	14.9	1.1	320			
4 T		7 / 0.43	1.29	0.5	11.8	16.1	1.1	380			
5 T		7 / 0.43	1.29	0.5	13.3	17.8	1.2	460			
6 T		7 / 0.43	1.29	0.5	15.3	20.0	1.3	560			
7 T		7 / 0.43	1.29	0.5	15.3	20.0	1.3	590			
8 T		7 / 0.43	1.29	0.5	16.6	21.3	1.4	660			
10 T	1.0	7 / 0.43	1.29	0.5	19.1	24.0	1.5	810	19.2	110	0.72
12 T		7 / 0.43	1.29	0.5	20.3	25.4	1.5	920			
14 T		7 / 0.43	1.29	0.5	21.3	26.4	1.6	1,020			
16 T		7 / 0.43	1.29	0.5	22.8	28.1	1.6	1,150			
19 T		7 / 0.43	1.29	0.5	24.8	30.3	1.7	1,330			
20 T		7 / 0.43	1.29	0.5	25.3	30.8	1.7	1,380			
24 T		7 / 0.43	1.29	0.5	27.8	33.5	1.8	1,620			
30 T		7 / 0.43	1.29	0.5	31.1	37.5	2.0	2,060			
32 T		7 / 0.43	1.29	0.5	32.3	38.9	2.1	2,190			
1 T		7 / 0.53	1.59	0.6	6.8	10.2	0.9	160			
2 T		7 / 0.53	1.59	0.6	11.7	16.0	1.1	350			
3 T		7 / 0.53	1.59	0.6	12.6	17.1	1.2	430			
4 T		7 / 0.53	1.59	0.6	14.1	18.6	1.2	510			
5 T		7 / 0.53	1.59	0.6	15.9	20.6	1.3	620			
6 T		7 / 0.53	1.59	0.6	18.3	23.2	1.4	750			
7 T		7 / 0.53	1.59	0.6	18.3	23.2	1.4	800			
8 T		7 / 0.53	1.59	0.6	19.8	24.9	1.5	900			
10 T	1.5	7 / 0.53	1.59	0.6	22.8	28.1	1.6	1,110	12.8	120	0.66
12 T		7 / 0.53	1.59	0.6	24.3	29.6	1.7	1,260			
14 T		7 / 0.53	1.59	0.6	25.5	31.0	1.7	1,410			
16 T		7 / 0.53	1.59	0.6	27.3	33.0	1.8	1,590			
19 T		7 / 0.53	1.59	0.6	29.7	35.4	1.9	1,830			
20 T		7 / 0.53	1.59	0.6	30.3	36.7	2.0	2,010			
24 T		7 / 0.53	1.59	0.6	33.3	39.9	2.1	2,360			
30 T		7 / 0.53	1.59	0.6	37.2	44.2	2.3	2,880			
32 T		7 / 0.53	1.59	0.6	38.7	45.7	2.3	3,060			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

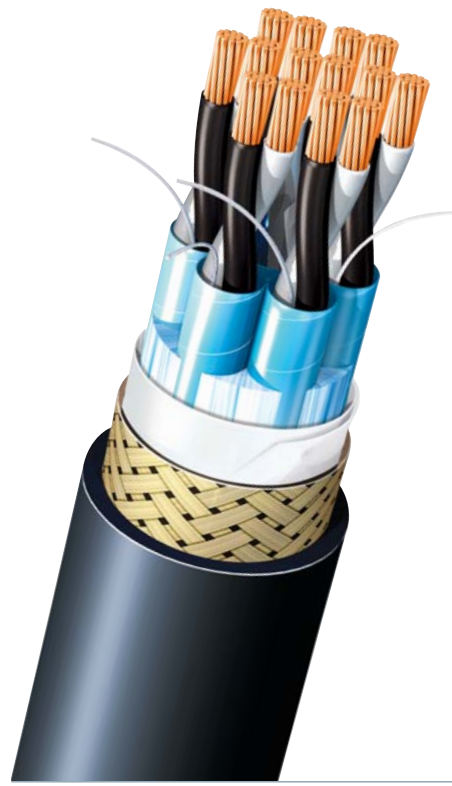
Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Flame Retardant
Telephone & Instrument Cable
(Individual Screen)

150/250V TFOI(i)

Cable Designation

- 150/250V TFOI(i)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Covering	F	Halogen Free Tape (Lapped inner covering)
Aarmor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

Cable Type 250V TFOI(i)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1 P		7 / 0.37	1.11	0.5	5.1	8.3	0.8	110			
2 P		7 / 0.37	1.11	0.5	8.6	12.2	1.0	200			
3 P		7 / 0.37	1.11	0.5	9.4	13.0	1.0	240			
4 P		7 / 0.37	1.11	0.5	10.1	14.4	1.1	310			
5 P		7 / 0.37	1.11	0.5	11.6	15.9	1.1	370			
6 P		7 / 0.37	1.11	0.5	12.6	17.1	1.2	430			
7 P		7 / 0.37	1.11	0.5	12.6	17.1	1.2	450			
8 P		7 / 0.37	1.11	0.5	13.5	18.0	1.2	500			
10 P	0.75	7 / 0.37	1.11	0.5	15.5	20.2	1.3	610	26.0	100	0.72
12 P		7 / 0.37	1.11	0.5	16.2	20.9	1.3	680			
14 P		7 / 0.37	1.11	0.5	17.0	21.7	1.4	750			
16 P		7 / 0.37	1.11	0.5	18.4	23.3	1.4	850			
19 P		7 / 0.37	1.11	0.5	19.9	25.0	1.5	980			
20 P		7 / 0.37	1.11	0.5	19.9	25.0	1.5	1,010			
24 P		7 / 0.37	1.11	0.5	23.1	28.4	1.6	1,220			
30 P		7 / 0.37	1.11	0.5	25.3	30.8	1.7	1,460			
37 P		7 / 0.37	1.11	0.5	27.3	33.0	1.8	1,720			
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1 P		7 / 0.43	1.29	0.5	5.5	8.9	0.9	120			
2 P		7 / 0.43	1.29	0.5	9.3	12.9	1.0	230			
3 P		7 / 0.43	1.29	0.5	10.1	14.4	1.1	310			
4 P		7 / 0.43	1.29	0.5	10.9	15.2	1.1	360			
5 P		7 / 0.43	1.29	0.5	12.5	17.0	1.2	440			
6 P		7 / 0.43	1.29	0.5	13.6	18.1	1.2	500			
7 P		7 / 0.43	1.29	0.5	13.6	18.1	1.2	530			
8 P		7 / 0.43	1.29	0.5	14.6	19.1	1.3	590			
10 P	1.0	7 / 0.43	1.29	0.5	16.7	21.4	1.4	720	19.2	110	0.69
12 P		7 / 0.43	1.29	0.5	17.5	22.4	1.4	820			
14 P		7 / 0.43	1.29	0.5	18.3	23.2	1.4	900			
16 P		7 / 0.43	1.29	0.5	19.9	25.0	1.5	1,030			
19 P		7 / 0.43	1.29	0.5	21.5	26.6	1.6	1,180			
20 P		7 / 0.43	1.29	0.5	21.5	26.6	1.6	1,210			
24 P		7 / 0.43	1.29	0.5	24.9	30.4	1.7	1,480			
30 P		7 / 0.43	1.29	0.5	27.3	33.0	1.8	1,780			
37 P		7 / 0.43	1.29	0.5	29.5	35.2	1.9	2,090			
<hr/>											
1 P		7 / 0.53	1.59	0.6	6.5	9.9	0.9	150			
2 P		7 / 0.53	1.59	0.6	11.0	15.3	1.1	320			
3 P		7 / 0.53	1.59	0.6	12.0	16.3	1.2	390			
4 P		7 / 0.53	1.59	0.6	12.9	17.4	1.2	460			
5 P		7 / 0.53	1.59	0.6	14.8	19.5	1.3	560			
6 P		7 / 0.53	1.59	0.6	16.1	20.8	1.3	640			
7 P		7 / 0.53	1.59	0.6	16.1	20.8	1.3	690			
8 P		7 / 0.53	1.59	0.6	17.3	22.2	1.4	770			
10 P	1.5	7 / 0.53	1.59	0.6	19.8	24.9	1.5	950	12.8	120	0.66
12 P		7 / 0.53	1.59	0.6	20.8	25.9	1.5	1,070			
14 P		7 / 0.53	1.59	0.6	21.7	26.8	1.6	1,180			
16 P		7 / 0.53	1.59	0.6	23.6	28.9	1.7	1,350			
19 P		7 / 0.53	1.59	0.6	25.5	31.0	1.7	1,560			
20 P		7 / 0.53	1.59	0.6	25.5	31.0	1.7	1,600			
24 P		7 / 0.53	1.59	0.6	29.6	35.3	1.9	1,950			
30 P		7 / 0.53	1.59	0.6	32.4	39.0	2.1	2,450			
37 P		7 / 0.53	1.59	0.6	35.0	41.8	2.2	2,900			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

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Light Weight Power & Control Cable

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Cable Type 250V TFOI(i)

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1T		7/0.37	1.11	0.5	5.5	8.9	0.9	120			
2T		7/0.37	1.11	0.5	9.6	13.2	1.0	230			
3T		7/0.37	1.11	0.5	10.3	14.6	1.1	320			
4T		7/0.37	1.11	0.5	11.5	15.8	1.1	380			
5T		7/0.37	1.11	0.5	13.0	17.5	1.2	460			
6T		7/0.37	1.11	0.5	14.9	19.6	1.3	550			
7T		7/0.37	1.11	0.5	14.9	19.6	1.3	580			
8T		7/0.37	1.11	0.5	16.2	20.9	1.3	650			
10T	0.75	7/0.37	1.11	0.5	18.6	23.5	1.4	800	26.0	100	0.72
12T		7/0.37	1.11	0.5	19.8	24.9	1.5	910			
14T		7/0.37	1.11	0.5	20.8	25.9	1.5	1,010			
16T		7/0.37	1.11	0.5	22.3	27.6	1.6	1,140			
19T		7/0.37	1.11	0.5	24.2	29.5	1.7	1,300			
20T		7/0.37	1.11	0.5	24.7	30.0	1.7	1,350			
24T		7/0.37	1.11	0.5	27.1	32.6	1.8	1,590			
30T		7/0.37	1.11	0.5	30.3	36.7	2.0	2,030			
32T		7/0.37	1.11	0.5	31.5	37.9	2.0	2,150			
1T		7/0.43	1.29	0.5	5.9	9.3	0.9	140			
2T		7/0.43	1.29	0.5	10.3	14.6	1.1	310			
3T		7/0.43	1.29	0.5	11.1	15.4	1.1	370			
4T		7/0.43	1.29	0.5	12.4	16.9	1.2	450			
5T		7/0.43	1.29	0.5	14.0	18.5	1.2	530			
6T		7/0.43	1.29	0.5	16.1	20.8	1.3	640			
7T		7/0.43	1.29	0.5	16.1	20.8	1.3	680			
8T		7/0.43	1.29	0.5	17.5	22.4	1.4	780			
10T	1.0	7/0.43	1.29	0.5	20.1	25.2	1.5	960	19.2	110	0.69
12T		7/0.43	1.29	0.5	21.4	26.5	1.6	1,080			
14T		7/0.43	1.29	0.5	22.5	27.8	1.6	1,220			
16T		7/0.43	1.29	0.5	24.1	29.4	1.7	1,360			
19T		7/0.43	1.29	0.5	26.2	31.7	1.8	1,580			
20T		7/0.43	1.29	0.5	26.7	32.2	1.8	1,640			
24T		7/0.43	1.29	0.5	29.3	35.0	1.9	1,930			
30T		7/0.43	1.29	0.5	32.8	39.4	2.1	2,470			
32T		7/0.43	1.29	0.5	34.1	40.7	2.1	2,620			
1T		7/0.53	1.59	0.6	7.0	10.4	0.9	170			
2T		7/0.53	1.59	0.6	12.2	16.5	1.2	380			
3T		7/0.53	1.59	0.6	13.2	17.7	1.2	480			
4T		7/0.53	1.59	0.6	14.7	19.2	1.3	570			
5T		7/0.53	1.59	0.6	16.6	21.3	1.4	690			
6T		7/0.53	1.59	0.6	19.1	24.0	1.5	840			
7T		7/0.53	1.59	0.6	19.1	24.0	1.5	900			
8T		7/0.53	1.59	0.6	20.7	25.8	1.5	1,020			
10T	1.5	7/0.53	1.59	0.6	23.8	29.1	1.7	1,260	12.8	120	0.66
12T		7/0.53	1.59	0.6	25.4	30.9	1.7	1,450			
14T		7/0.53	1.59	0.6	26.7	32.2	1.8	1,620			
16T		7/0.53	1.59	0.6	28.6	34.3	1.9	1,830			
19T		7/0.53	1.59	0.6	31.1	37.5	2.0	2,210			
20T		7/0.53	1.59	0.6	31.7	38.1	2.0	2,300			
24T		7/0.53	1.59	0.6	34.8	41.6	2.2	2,720			
30T		7/0.53	1.59	0.6	38.9	45.9	2.3	3,310			
32T		7/0.53	1.59	0.6	40.5	47.7	2.4	3,530			



Light Weight
Flame Retardant
Telephone & Instrument Cable
(Collective Screen)

150/250V TFOI(c)

Cable Designation

- 150/250V TFOI(c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	F	Halogen Free Tape (Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

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Cable Type 250V TFOI(C)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1P		7/0.37	1.11	0.5	5.1	8.3	0.8	110			
2P		7/0.37	1.11	0.5	6.1	9.5	0.9	140			
3P		7/0.37	1.11	0.5	9.0	12.6	1.0	220			
4P		7/0.37	1.11	0.5	9.7	13.3	1.0	250			
5P		7/0.37	1.11	0.5	11.1	15.4	1.1	330			
6P		7/0.37	1.11	0.5	12.0	16.3	1.2	370			
7P		7/0.37	1.11	0.5	12.0	16.3	1.2	390			
8P		7/0.37	1.11	0.5	12.9	17.4	1.2	440			
10P	0.75	7/0.37	1.11	0.5	14.8	19.5	1.3	530	26.0	95	0.72
12P		7/0.37	1.11	0.5	15.5	20.2	1.3	580			
14P		7/0.37	1.11	0.5	16.1	20.8	1.3	630			
16P		7/0.37	1.11	0.5	17.5	22.4	1.4	720			
19P		7/0.37	1.11	0.5	18.9	23.8	1.5	810			
20P		7/0.37	1.11	0.5	18.9	23.8	1.5	830			
24P		7/0.37	1.11	0.5	21.9	27.0	1.6	1,000			
30P		7/0.37	1.11	0.5	24.0	29.3	1.7	1,190			
37P		7/0.37	1.11	0.5	25.8	31.3	1.8	1,390			
1P		7/0.43	1.29	0.5	5.5	8.9	0.9	120			
2P		7/0.43	1.29	0.5	6.5	9.9	0.9	160			
3P		7/0.43	1.29	0.5	9.8	13.4	1.0	250			
4P		7/0.43	1.29	0.5	10.5	14.8	1.1	330			
5P		7/0.43	1.29	0.5	12.0	16.3	1.2	380			
6P		7/0.43	1.29	0.5	13.0	17.5	1.2	440			
7P		7/0.43	1.29	0.5	13.0	17.5	1.2	460			
8P		7/0.43	1.29	0.5	14.0	18.5	1.2	510			
10P	1.0	7/0.43	1.29	0.5	16.0	20.7	1.3	610	19.2	100	0.69
12P		7/0.43	1.29	0.5	16.8	21.5	1.4	680			
14P		7/0.43	1.29	0.5	17.5	22.4	1.4	760			
16P		7/0.43	1.29	0.5	19.0	23.9	1.5	840			
19P		7/0.43	1.29	0.5	20.5	25.6	1.5	970			
20P		7/0.43	1.29	0.5	20.5	25.6	1.5	990			
24P		7/0.43	1.29	0.5	23.8	29.1	1.7	1,200			
30P		7/0.43	1.29	0.5	26.0	31.5	1.8	1,430			
37P		7/0.43	1.29	0.5	28.0	33.7	1.8	1,680			
1P		7/0.53	1.59	0.6	6.5	9.9	0.9	150			
2P		7/0.53	1.59	0.6	7.7	11.1	0.9	200			
3P		7/0.53	1.59	0.6	11.6	15.9	1.1	360			
4P		7/0.53	1.59	0.6	12.5	17.0	1.2	420			
5P		7/0.53	1.59	0.6	14.3	18.8	1.3	500			
6P		7/0.53	1.59	0.6	15.5	20.2	1.3	580			
7P		7/0.53	1.59	0.6	15.5	20.2	1.3	610			
8P		7/0.53	1.59	0.6	16.7	21.4	1.4	680			
10P	1.5	7/0.53	1.59	0.6	19.1	24.0	1.5	820	12.8	110	0.66
12P		7/0.53	1.59	0.6	20.0	25.1	1.5	930			
14P		7/0.53	1.59	0.6	20.9	26.0	1.5	1,020			
16P		7/0.53	1.59	0.6	22.7	28.0	1.6	1,160			
19P		7/0.53	1.59	0.6	24.5	29.8	1.7	1,320			
20P		7/0.53	1.59	0.6	24.5	29.8	1.7	1,350			
24P		7/0.53	1.59	0.6	28.4	34.1	1.9	1,660			
30P		7/0.53	1.59	0.6	31.1	37.5	2.0	2,080			
37P		7/0.53	1.59	0.6	33.5	40.1	2.1	2,430			

Cable Type 250V TFOI(i)

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1T		7/0.37	1.11	0.5	5.5	8.9	0.9	120			
2T		7/0.37	1.11	0.5	9.6	13.2	1.0	230			
3T		7/0.37	1.11	0.5	10.3	14.6	1.1	320			
4T		7/0.37	1.11	0.5	11.5	15.8	1.1	380			
5T		7/0.37	1.11	0.5	13.0	17.5	1.2	460			
6T		7/0.37	1.11	0.5	14.9	19.6	1.3	550			
7T		7/0.37	1.11	0.5	14.9	19.6	1.3	580			
8T		7/0.37	1.11	0.5	16.2	20.9	1.3	650			
10T	0.75	7/0.37	1.11	0.5	18.6	23.5	1.4	800	26.0	100	0.72
12T		7/0.37	1.11	0.5	19.8	24.9	1.5	910			
14T		7/0.37	1.11	0.5	20.8	25.9	1.5	1,010			
16T		7/0.37	1.11	0.5	22.3	27.6	1.6	1,140			
19T		7/0.37	1.11	0.5	24.2	29.5	1.7	1,300			
20T		7/0.37	1.11	0.5	24.7	30.0	1.7	1,350			
24T		7/0.37	1.11	0.5	27.1	32.6	1.8	1,590			
30T		7/0.37	1.11	0.5	30.3	36.7	2.0	2,030			
32T		7/0.37	1.11	0.5	31.5	37.9	2.0	2,150			
1T		7/0.43	1.29	0.5	5.9	9.3	0.9	140			
2T		7/0.43	1.29	0.5	10.3	14.6	1.1	310			
3T		7/0.43	1.29	0.5	11.1	15.4	1.1	370			
4T		7/0.43	1.29	0.5	12.4	16.9	1.2	450			
5T		7/0.43	1.29	0.5	14.0	18.5	1.2	530			
6T		7/0.43	1.29	0.5	16.1	20.8	1.3	640			
7T		7/0.43	1.29	0.5	16.1	20.8	1.3	680			
8T		7/0.43	1.29	0.5	17.5	22.4	1.4	780			
10T	1.0	7/0.43	1.29	0.5	20.1	25.2	1.5	960	19.2	110	0.69
12T		7/0.43	1.29	0.5	21.4	26.5	1.6	1,080			
14T		7/0.43	1.29	0.5	22.5	27.8	1.6	1,220			
16T		7/0.43	1.29	0.5	24.1	29.4	1.7	1,360			
19T		7/0.43	1.29	0.5	26.2	31.7	1.8	1,580			
20T		7/0.43	1.29	0.5	26.7	32.2	1.8	1,640			
24T		7/0.43	1.29	0.5	29.3	35.0	1.9	1,930			
30T		7/0.43	1.29	0.5	32.8	39.4	2.1	2,470			
32T		7/0.43	1.29	0.5	34.1	40.7	2.1	2,620			
1T		7/0.53	1.59	0.6	7.0	10.4	0.9	170			
2T		7/0.53	1.59	0.6	12.2	16.5	1.2	380			
3T		7/0.53	1.59	0.6	13.2	17.7	1.2	480			
4T		7/0.53	1.59	0.6	14.7	19.2	1.3	570			
5T		7/0.53	1.59	0.6	16.6	21.3	1.4	690			
6T		7/0.53	1.59	0.6	19.1	24.0	1.5	840			
7T		7/0.53	1.59	0.6	19.1	24.0	1.5	900			
8T		7/0.53	1.59	0.6	20.7	25.8	1.5	1,020			
10T	1.5	7/0.53	1.59	0.6	23.8	29.1	1.7	1,260	12.8	120	0.66
12T		7/0.53	1.59	0.6	25.4	30.9	1.7	1,450			
14T		7/0.53	1.59	0.6	26.7	32.2	1.8	1,620			
16T		7/0.53	1.59	0.6	28.6	34.3	1.9	1,830			
19T		7/0.53	1.59	0.6	31.1	37.5	2.0	2,210			
20T		7/0.53	1.59	0.6	31.7	38.1	2.0	2,300			
24T		7/0.53	1.59	0.6	34.8	41.6	2.2	2,720			
30T		7/0.53	1.59	0.6	38.9	45.9	2.3	3,310			
32T		7/0.53	1.59	0.6	40.5	47.7	2.4	3,530			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

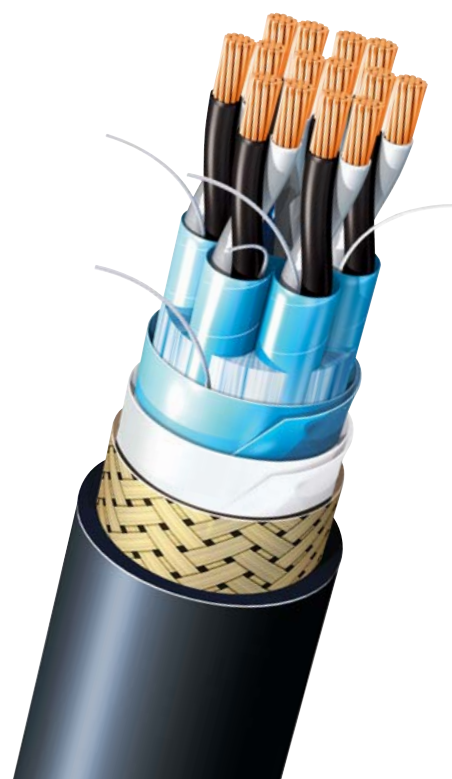
Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Flame Retardant
Telephone & Instrument Cable
(Individual & Collective Screen)

150/250V TFOI(i&c)

Cable Designation

- 150/250V TFOI(i&c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	F	Halogen Free Tape (Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- Core Identification**
- 1) Each pair/triad - Pairs : Black, White
 - Triads : Black, White, Red
 - 2) Multi pair/triad cables
 Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
 - 3) The other color scheme may be applicable when purchaser required.

Cable Type 250V TFOI(i&c)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1 P		7 / 0.37	1.11	0.5	5.1	8.3	0.8	110			
2 P		7 / 0.37	1.11	0.5	8.8	12.4	1.0	210			
3 P		7 / 0.37	1.11	0.5	9.6	13.2	1.0	250			
4 P		7 / 0.37	1.11	0.5	10.3	14.6	1.1	330			
5 P		7 / 0.37	1.11	0.5	11.8	16.1	1.1	390			
6 P		7 / 0.37	1.11	0.5	12.8	17.3	1.2	450			
7 P		7 / 0.37	1.11	0.5	12.8	17.3	1.2	470			
8 P		7 / 0.37	1.11	0.5	13.7	18.2	1.2	520			
10 P	0.75	7 / 0.37	1.11	0.5	15.7	20.4	1.3	630	26.0	95	0.72
12 P		7 / 0.37	1.11	0.5	16.4	21.1	1.3	700			
14 P		7 / 0.37	1.11	0.5	17.2	21.9	1.4	770			
16 P		7 / 0.37	1.11	0.5	18.6	23.5	1.4	870			
19 P		7 / 0.37	1.11	0.5	20.1	25.2	1.5	1,010			
20 P		7 / 0.37	1.11	0.5	20.1	25.2	1.5	1,030			
24 P		7 / 0.37	1.11	0.5	23.3	28.6	1.6	1,250			
30 P		7 / 0.37	1.11	0.5	25.5	31.0	1.7	1,490			
37 P		7 / 0.37	1.11	0.5	27.5	33.2	1.8	1,750			
1 P		7 / 0.43	1.29	0.5	5.5	8.9	0.9	120			
2 P		7 / 0.43	1.29	0.5	9.5	13.1	1.0	240			
3 P		7 / 0.43	1.29	0.5	10.3	14.6	1.1	330			
4 P		7 / 0.43	1.29	0.5	11.1	15.4	1.1	380			
5 P		7 / 0.43	1.29	0.5	12.7	17.2	1.2	460			
6 P		7 / 0.43	1.29	0.5	13.8	18.3	1.2	520			
7 P		7 / 0.43	1.29	0.5	13.8	18.3	1.2	550			
8 P		7 / 0.43	1.29	0.5	14.8	19.5	1.3	620			
10 P	1.0	7 / 0.43	1.29	0.5	16.9	21.6	1.4	740	19.2	100	0.69
12 P		7 / 0.43	1.29	0.5	17.7	22.6	1.4	840			
14 P		7 / 0.43	1.29	0.5	18.5	23.4	1.4	930			
16 P		7 / 0.43	1.29	0.5	20.1	25.2	1.5	1,060			
19 P		7 / 0.43	1.29	0.5	21.7	26.8	1.6	1,210			
20 P		7 / 0.43	1.29	0.5	21.7	26.8	1.6	1,240			
24 P		7 / 0.43	1.29	0.5	25.1	30.6	1.7	1,510			
30 P		7 / 0.43	1.29	0.5	27.5	33.2	1.8	1,810			
37 P		7 / 0.43	1.29	0.5	29.7	35.4	1.9	2,130			
1 P		7 / 0.53	1.59	0.6	6.5	9.9	0.9	150			
2 P		7 / 0.53	1.59	0.6	11.2	15.5	1.1	340			
3 P		7 / 0.53	1.59	0.6	12.2	16.5	1.2	410			
4 P		7 / 0.53	1.59	0.6	13.1	17.6	1.2	480			
5 P		7 / 0.53	1.59	0.6	15.0	19.7	1.3	590			
6 P		7 / 0.53	1.59	0.6	16.3	21.0	1.3	670			
7 P		7 / 0.53	1.59	0.6	16.3	21.0	1.3	710			
8 P		7 / 0.53	1.59	0.6	17.5	22.4	1.4	800			
10 P	1.5	7 / 0.53	1.59	0.6	20.0	25.1	1.5	970	12.8	110	0.66
12 P		7 / 0.53	1.59	0.6	21.0	26.1	1.5	1,090			
14 P		7 / 0.53	1.59	0.6	21.9	27.0	1.6	1,210			
16 P		7 / 0.53	1.59	0.6	23.8	29.1	1.7	1,380			
19 P		7 / 0.53	1.59	0.6	25.7	31.2	1.7	1,590			
20 P		7 / 0.53	1.59	0.6	25.7	31.2	1.7	1,630			
24 P		7 / 0.53	1.59	0.6	29.8	35.7	1.9	2,000			
30 P		7 / 0.53	1.59	0.6	32.6	39.2	2.1	2,490			
37 P		7 / 0.53	1.59	0.6	35.2	42.0	2.2	2,940			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V TFOI(i&c)

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Ω/km	Capacitance nF/km	Inductance mH/km
	Nominal Area mm ²	Strand No./mm	Dia. mm			Nominal mm	Tolerance ± mm				
1T		7 / 0.37	1.11	0.5	5.5	8.9	0.9	130			
2T		7 / 0.37	1.11	0.5	9.8	13.4	1.0	250			
3T		7 / 0.37	1.11	0.5	10.5	14.8	1.1	330			
4T		7 / 0.37	1.11	0.5	11.7	16.0	1.1	400			
5T		7 / 0.37	1.11	0.5	13.2	17.7	1.2	480			
6T		7 / 0.37	1.11	0.5	15.1	19.8	1.3	570			
7T		7 / 0.37	1.11	0.5	15.1	19.8	1.3	600			
8T		7 / 0.37	1.11	0.5	16.4	21.1	1.3	670			
10T	0.75	7 / 0.37	1.11	0.5	18.8	23.7	1.4	820	26.0	95	0.72
12T		7 / 0.37	1.11	0.5	20.0	25.1	1.5	940			
14T		7 / 0.37	1.11	0.5	21.0	26.1	1.5	1,030			
16T		7 / 0.37	1.11	0.5	22.5	27.8	1.6	1,160			
19T		7 / 0.37	1.11	0.5	24.4	29.7	1.7	1,330			
20T		7 / 0.37	1.11	0.5	24.9	30.4	1.7	1,400			
24T		7 / 0.37	1.11	0.5	27.3	33.0	1.8	1,630			
30T		7 / 0.37	1.11	0.5	30.5	36.9	2.0	2,070			
32T		7 / 0.37	1.11	0.5	31.7	38.1	2.0	2,190			
1T		7 / 0.43	1.29	0.5	5.9	9.3	0.9	140			
2T		7 / 0.43	1.29	0.5	10.5	14.8	1.1	320			
3T		7 / 0.43	1.29	0.5	11.3	15.6	1.1	390			
4T		7 / 0.43	1.29	0.5	12.6	17.1	1.2	470			
5T		7 / 0.43	1.29	0.5	14.2	18.7	1.2	550			
6T		7 / 0.43	1.29	0.5	16.3	21.0	1.3	670			
7T		7 / 0.43	1.29	0.5	16.3	21.0	1.3	710			
8T		7 / 0.43	1.29	0.5	17.7	22.6	1.4	800			
10T	1.0	7 / 0.43	1.29	0.5	20.3	25.4	1.5	980	19.2	100	0.69
12T		7 / 0.43	1.29	0.5	21.6	26.7	1.6	1,110			
14T		7 / 0.43	1.29	0.5	22.7	28.0	1.6	1,250			
16T		7 / 0.43	1.29	0.5	24.3	29.6	1.7	1,390			
19T		7 / 0.43	1.29	0.5	26.4	31.9	1.8	1,610			
20T		7 / 0.43	1.29	0.5	26.9	32.4	1.8	1,680			
24T		7 / 0.43	1.29	0.5	29.5	35.2	1.9	1,970			
30T		7 / 0.43	1.29	0.5	33.0	39.6	2.1	2,510			
32T		7 / 0.43	1.29	0.5	34.3	41.1	2.1	2,680			
1T		7 / 0.53	1.59	0.6	7.0	10.4	0.9	180			
2T		7 / 0.53	1.59	0.6	12.4	16.9	1.2	410			
3T		7 / 0.53	1.59	0.6	13.4	17.9	1.2	500			
4T		7 / 0.53	1.59	0.6	14.9	19.6	1.3	610			
5T		7 / 0.53	1.59	0.6	16.8	21.5	1.4	720			
6T		7 / 0.53	1.59	0.6	19.3	24.2	1.5	870			
7T		7 / 0.53	1.59	0.6	19.3	24.2	1.5	930			
8T		7 / 0.53	1.59	0.6	20.9	26.0	1.5	1,050			
10T	1.5	7 / 0.53	1.59	0.6	24.0	29.3	1.7	1,290	12.8	110	0.66
12T		7 / 0.53	1.59	0.6	25.6	31.1	1.7	1,480			
14T		7 / 0.53	1.59	0.6	26.9	32.4	1.8	1,650			
16T		7 / 0.53	1.59	0.6	28.8	34.5	1.9	1,860			
19T		7 / 0.53	1.59	0.6	31.3	37.7	2.0	2,250			
20T		7 / 0.53	1.59	0.6	31.9	38.5	2.0	2,360			
24T		7 / 0.53	1.59	0.6	35.0	41.8	2.2	2,760			
30T		7 / 0.53	1.59	0.6	39.1	46.1	2.3	3,350			
32T		7 / 0.53	1.59	0.6	40.7	47.9	2.4	3,580			



Light Weight
Flame Retardant
Telephone & Instrument Cable
(Individual Screen)

150/250V TXXI(i)

Cable Designation

- 150/250V TXXI(i)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Covering	X	Non
Armor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V TXXI(i)

No. of Pairs	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7/0.37	1.11	0.5	7.1	0.8	70			
2 P		7/0.37	1.11	0.5	10.8	0.9	140			
3 P		7/0.37	1.11	0.5	11.8	1.0	180			
4 P		7/0.37	1.11	0.5	12.5	1.0	210			
5 P		7/0.37	1.11	0.5	14.2	1.1	260			
6 P	0.75	7/0.37	1.11	0.5	15.2	1.1	300			
7 P		7/0.37	1.11	0.5	15.2	1.1	330			
8 P		7/0.37	1.11	0.5	16.1	1.1	370			
10 P		7/0.37	1.11	0.5	18.3	1.2	460	26.0	100	0.72
12 P		7/0.37	1.11	0.5	19.0	1.3	520			
14 P		7/0.37	1.11	0.5	20.0	1.3	600			
16 P		7/0.37	1.11	0.5	21.4	1.4	670			
19 P		7/0.37	1.11	0.5	23.1	1.4	790			
20 P		7/0.37	1.11	0.5	23.1	1.4	810			
24 P		7/0.37	1.11	0.5	26.5	1.6	1,000			
30 P		7/0.37	1.11	0.5	28.9	1.7	1,220			
37 P		7/0.37	1.11	0.5	31.1	1.7	1,470			
1 P		7/0.43	1.29	0.5	7.5	0.8	80			
2 P		7/0.43	1.29	0.5	11.7	1.0	170			
3 P		7/0.43	1.29	0.5	12.5	1.0	210			
4 P	1.0	7/0.43	1.29	0.5	13.3	1.0	250			
5 P		7/0.43	1.29	0.5	15.1	1.1	310			
6 P		7/0.43	1.29	0.5	16.2	1.1	360			
7 P		7/0.43	1.29	0.5	16.2	1.1	400			
8 P		7/0.43	1.29	0.5	17.4	1.2	450			
10 P		7/0.43	1.29	0.5	19.7	1.3	570	19.2	110	0.69
12 P		7/0.43	1.29	0.5	20.5	1.3	650			
14 P		7/0.43	1.29	0.5	21.3	1.4	730			
16 P		7/0.43	1.29	0.5	23.1	1.4	840			
19 P		7/0.43	1.29	0.5	24.9	1.5	980			
20 P		7/0.43	1.29	0.5	24.9	1.5	1,020			
24 P		7/0.43	1.29	0.5	28.5	1.6	1,250			
30 P		7/0.43	1.29	0.5	31.1	1.7	1,520			
37 P		7/0.43	1.29	0.5	33.5	1.8	1,830			

Cable Type 250V TXXI(i)

No. of Triads	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 T		7/0.37	1.11	0.5	7.5	0.8	80			
2 T		7/0.37	1.11	0.5	12.0	1.0	170			
3 T		7/0.37	1.11	0.5	12.7	1.0	210			
4 T		7/0.37	1.11	0.5	14.1	1.1	270			
5 T		7/0.37	1.11	0.5	15.6	1.1	330			
6 T	0.75	7/0.37	1.11	0.5	17.7	1.2	400			
7 T		7/0.37	1.11	0.5	17.7	1.2	430			
8 T		7/0.37	1.11	0.5	19.0	1.3	490			
10 T		7/0.37	1.11	0.5	21.6	1.4	620	26.0	100	0.72
12 T		7/0.37	1.11	0.5	23.0	1.4	720			
14 T		7/0.37	1.11	0.5	24.0	1.5	810			
16 T		7/0.37	1.11	0.5	25.7	1.5	920			
19 T		7/0.37	1.11	0.5	27.8	1.6	1,090			
20 T		7/0.37	1.11	0.5	28.3	1.6	1,130			
24 T		7/0.37	1.11	0.5	30.9	1.7	1,350			
30 T		7/0.37	1.11	0.5	34.3	1.9	1,660			
32 T		7/0.37	1.11	0.5	35.7	1.9	1,790			
1 T		7/0.43	1.29	0.5	7.9	0.8	100			
2 T		7/0.43	1.29	0.5	12.7	1.0	200			
3 T		7/0.43	1.29	0.5	13.5	1.0	260			
4 T	1.0	7/0.43	1.29	0.5	15.0	1.1	330			
5 T		7/0.43	1.29	0.5	16.8	1.2	400			
6 T		7/0.43	1.29	0.5	18.9	1.3	490			
7 T		7/0.43	1.29	0.5	18.9	1.3	530			
8 T		7/0.43	1.29	0.5	20.5	1.3	610			
10 T		7/0.43	1.29	0.5	23.3	1.4	760	19.2	110	0.69
12 T		7/0.43	1.29	0.5	24.6	1.5	880			
14 T		7/0.43	1.29	0.5	25.9	1.5	1,010			
16 T		7/0.43	1.29	0.5	27.7	1.6	1,150			
19 T		7/0.43	1.29	0.5	29.8	1.7	1,340			
20 T		7/0.43	1.29	0.5	30.5	1.7	1,410			
24 T		7/0.43	1.29	0.5	33.3	1.8	1,680			
30 T		7/0.43	1.29	0.5	37.0	2.0	2,070			
32 T		7/0.43	1.29	0.5	38.5	2.0	2,220			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Flame Retardant
Telephone & Instrument Cable
(Collective Screen)

150/250V TXXI(c)

Cable Designation

- 150/250V TXXI(c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Collective Screen	(c)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Covering	X	Non
Armor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- 1) Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red
- 2) Multi pair/triad cables
 Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
- 3) The other color scheme may be applicable when purchaser required.

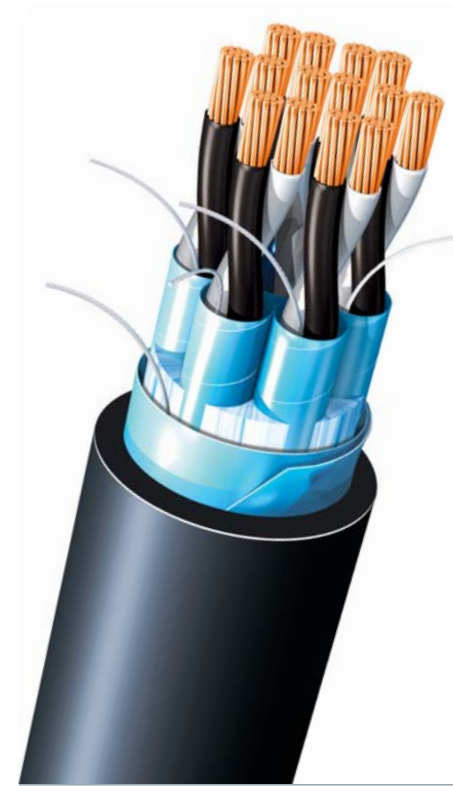
Cable Type 250V TXXI(c)

No. of Pairs	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	7.1	0.8	70			
2 P		7 / 0.37	1.11	0.5	8.1	0.8	100			
3 P		7 / 0.37	1.11	0.5	11.4	1.0	160			
4 P		7 / 0.37	1.11	0.5	12.1	1.0	180			
5 P		7 / 0.37	1.11	0.5	13.5	1.0	220			
6 P		7 / 0.37	1.11	0.5	14.6	1.1	260			
7 P		7 / 0.37	1.11	0.5	14.6	1.1	280			
8 P		7 / 0.37	1.11	0.5	15.5	1.1	310			
10 P	0.75	7 / 0.37	1.11	0.5	17.6	1.2	380	26.0	95	0.72
12 P		7 / 0.37	1.11	0.5	18.3	1.2	430			
14 P		7 / 0.37	1.11	0.5	18.9	1.3	480			
16 P		7 / 0.37	1.11	0.5	20.5	1.3	550			
19 P		7 / 0.37	1.11	0.5	21.9	1.4	630			
20 P		7 / 0.37	1.11	0.5	21.9	1.4	640			
24 P		7 / 0.37	1.11	0.5	25.3	1.5	810			
30 P		7 / 0.37	1.11	0.5	27.6	1.6	980			
37 P		7 / 0.37	1.11	0.5	29.4	1.7	1,140			
1 P		7 / 0.43	1.29	0.5	7.5	0.8	80			
2 P		7 / 0.43	1.29	0.5	8.7	0.8	120			
3 P		7 / 0.43	1.29	0.5	12.2	1.0	190			
4 P		7 / 0.43	1.29	0.5	12.9	1.0	220			
5 P		7 / 0.43	1.29	0.5	14.6	1.1	270			
6 P		7 / 0.43	1.29	0.5	15.6	1.1	310			
7 P		7 / 0.43	1.29	0.5	15.6	1.1	330			
8 P		7 / 0.43	1.29	0.5	16.8	1.2	380			
10 P	1.0	7 / 0.43	1.29	0.5	18.8	1.3	460	19.2	100	0.69
12 P		7 / 0.43	1.29	0.5	19.8	1.3	530			
14 P		7 / 0.43	1.29	0.5	20.5	1.3	590			
16 P		7 / 0.43	1.29	0.5	22.2	1.4	670			
19 P		7 / 0.43	1.29	0.5	23.7	1.4	770			
20 P		7 / 0.43	1.29	0.5	23.7	1.4	800			
24 P		7 / 0.43	1.29	0.5	27.2	1.6	980			
30 P		7 / 0.43	1.29	0.5	29.6	1.7	1,190			
37 P		7 / 0.43	1.29	0.5	31.8	1.8	1,410			

Normal Power & Control Cable
 Normal Telephone & Instrument Cable
 Light Weight Power & Control Cable
 Light Weight Telephone & Instrument Cable
 Technical Data & Installation Information

Cable Type 250V TXXI(c)

No. of Triads	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km
1 T		7 / 0.37	1.11	0.5	7.5	0.8	80			
2 T		7 / 0.37	1.11	0.5	11.6	1.0	160			
3 T		7 / 0.37	1.11	0.5	12.3	1.0	200			
4 T		7 / 0.37	1.11	0.5	13.5	1.0	240			
5 T		7 / 0.37	1.11	0.5	15.1	1.1	290			
6 T		7 / 0.37	1.11	0.5	17.1	1.2	360			
7 T	0.75	7 / 0.37	1.11	0.5	17.1	1.2	380	26.0	95	0.72
8 T		7 / 0.37	1.11	0.5	18.3	1.2	430			
10 T		7 / 0.37	1.11	0.5	20.8	1.3	540			
12 T		7 / 0.37	1.11	0.5	21.9	1.4	610			
14 T		7 / 0.37	1.11	0.5	23.0	1.4	690			
16 T		7 / 0.37	1.11	0.5	24.4	1.5	780			
19 T		7 / 0.37	1.11	0.5	26.5	1.6	910			
20 T		7 / 0.37	1.11	0.5	26.9	1.6	950			
24 T		7 / 0.37	1.11	0.5	29.4	1.7	1,130			
30 T		7 / 0.37	1.11	0.5	32.6	1.8	1,380			
32 T		7 / 0.37	1.11	0.5	33.9	1.9	1,490			
1 T		7 / 0.43	1.29	0.5	7.9	0.8	100			
2 T		7 / 0.43	1.29	0.5	12.4	1.0	190			
3 T		7 / 0.43	1.29	0.5	13.2	1.0	230			
4 T		7 / 0.43	1.29	0.5	14.6	1.1	290			
5 T		7 / 0.43	1.29	0.5	16.1	1.1	350			
6 T		7 / 0.43	1.29	0.5	18.3	1.2	430			
7 T	1.0	7 / 0.43	1.29	0.5	18.3	1.2	460	19.2	100	0.69
8 T		7 / 0.43	1.29	0.5	19.8	1.3	530			
10 T		7 / 0.43	1.29	0.5	22.5	1.4	660			
12 T		7 / 0.43	1.29	0.5	23.7	1.4	750			
14 T		7 / 0.43	1.29	0.5	24.9	1.5	850			
16 T		7 / 0.43	1.29	0.5	26.4	1.6	960			
19 T		7 / 0.43	1.29	0.5	28.6	1.6	1,120			
20 T		7 / 0.43	1.29	0.5	29.1	1.7	1,170			
24 T		7 / 0.43	1.29	0.5	31.8	1.8	1,390			
30 T		7 / 0.43	1.29	0.5	35.3	1.9	1,710			
32 T		7 / 0.43	1.29	0.5	36.7	2.0	1,840			



Light Weight
Flame Retardant
Telephone & Instrument Cable
(Individual & Collective Screen)

150/250V TXXI(i & c)

Cable Designation

- 150/250V TXXI(i&c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Insulation	T	Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	X	Non
Armor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- Core Identification**
- 1) Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red
 - 2) Multi pair/triad cables
 Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
 - 3) The other color scheme may be applicable when purchaser required.

Normal Power & Control Cable
 Normal Telephone & Instrument Cable
 Light Weight Power & Control Cable
 Light Weight Telephone & Instrument Cable
 Technical Data & Installation Information

Cable Type 250V TXXI(i&c)

No. of Pairs	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	7.3	0.8	70			
2 P		7 / 0.37	1.11	0.5	11.0	0.9	150			
3 P		7 / 0.37	1.11	0.5	12.0	1.0	190			
4 P		7 / 0.37	1.11	0.5	12.7	1.0	220			
5 P		7 / 0.37	1.11	0.5	14.4	1.1	280			
6 P		7 / 0.37	1.11	0.5	15.4	1.1	320			
7 P		7 / 0.37	1.11	0.5	15.4	1.1	340			
8 P		7 / 0.37	1.11	0.5	16.3	1.2	380			
10 P	0.75	7 / 0.37	1.11	0.5	18.5	1.2	480	26.0	95	0.72
12 P		7 / 0.37	1.11	0.5	19.2	1.3	540			
14 P		7 / 0.37	1.11	0.5	20.2	1.3	620			
16 P		7 / 0.37	1.11	0.5	21.6	1.4	700			
19 P		7 / 0.37	1.11	0.5	23.3	1.4	810			
20 P		7 / 0.37	1.11	0.5	23.3	1.4	840			
24 P		7 / 0.37	1.11	0.5	26.7	1.6	1,030			
30 P		7 / 0.37	1.11	0.5	29.1	1.7	1,250			
37 P		7 / 0.37	1.11	0.5	31.3	1.8	1,500			
1 P		7 / 0.43	1.29	0.5	7.7	0.8	80			
2 P		7 / 0.43	1.29	0.5	11.9	1.0	180			
3 P		7 / 0.43	1.29	0.5	12.7	1.0	220			
4 P		7 / 0.43	1.29	0.5	13.5	1.0	270			
5 P		7 / 0.43	1.29	0.5	15.3	1.1	330			
6 P		7 / 0.43	1.29	0.5	16.4	1.2	380			
7 P		7 / 0.43	1.29	0.5	16.4	1.2	420			
8 P		7 / 0.43	1.29	0.5	17.6	1.2	480			
10 P	1.0	7 / 0.43	1.29	0.5	19.9	1.3	590	19.2	100	0.69
12 P		7 / 0.43	1.29	0.5	20.7	1.3	670			
14 P		7 / 0.43	1.29	0.5	21.5	1.4	750			
16 P		7 / 0.43	1.29	0.5	23.3	1.4	860			
19 P		7 / 0.43	1.29	0.5	25.1	1.5	1,010			
20 P		7 / 0.43	1.29	0.5	25.1	1.5	1,040			
24 P		7 / 0.43	1.29	0.5	28.7	1.6	1,280			
30 P		7 / 0.43	1.29	0.5	31.3	1.8	1,560			
37 P		7 / 0.43	1.29	0.5	33.7	1.8	1,870			

Cable Type 250V TXXI(i&c)

No. of Triads	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 T		7 / 0.37	1.11	0.5	7.7	0.8	80			
2 T		7 / 0.37	1.11	0.5	12.2	1.0	190			
3 T		7 / 0.37	1.11	0.5	12.9	1.0	230			
4 T		7 / 0.37	1.11	0.5	14.3	1.1	290			
5 T		7 / 0.37	1.11	0.5	15.8	1.1	340			
6 T		7 / 0.37	1.11	0.5	17.9	1.2	420			
7 T		7 / 0.37	1.11	0.5	17.9	1.2	450			
8 T	0.75	7 / 0.37	1.11	0.5	19.2	1.3	510			
10 T		7 / 0.37	1.11	0.5	21.8	1.4	640	26.0	95	0.72
12 T		7 / 0.37	1.11	0.5	23.2	1.4	740			
14 T		7 / 0.37	1.11	0.5	24.2	1.5	830			
16 T		7 / 0.37	1.11	0.5	25.9	1.5	950			
19 T		7 / 0.37	1.11	0.5	28.0	1.6	1,110			
20 T		7 / 0.37	1.11	0.5	28.5	1.6	1,160			
24 T		7 / 0.37	1.11	0.5	31.1	1.7	1,380			
30 T		7 / 0.37	1.11	0.5	34.5	1.9	1,700			
32 T		7 / 0.37	1.11	0.5	35.9	1.9	1,820			
1 T		7 / 0.43	1.29	0.5	8.1	0.8	100			
2 T		7 / 0.43	1.29	0.5	12.9	1.0	220			
3 T		7 / 0.43	1.29	0.5	13.7	1.0	270			
4 T		7 / 0.43	1.29	0.5	15.2	1.1	340			
5 T		7 / 0.43	1.29	0.5	17.0	1.2	420			
6 T		7 / 0.43	1.29	0.5	19.1	1.3	510			
7 T	1.0	7 / 0.43	1.29	0.5	19.1	1.3	550			
8 T		7 / 0.43	1.29	0.5	20.7	1.3	630			
10 T		7 / 0.43	1.29	0.5	23.5	1.4	790	19.2	100	0.69
12 T		7 / 0.43	1.29	0.5	25.0	1.5	920			
14 T		7 / 0.43	1.29	0.5	26.1	1.5	1,030			
16 T		7 / 0.43	1.29	0.5	27.9	1.6	1,180			
19 T		7 / 0.43	1.29	0.5	30.0	1.7	1,370			
20 T		7 / 0.43	1.29	0.5	30.7	1.7	1,440			
24 T		7 / 0.43	1.29	0.5	33.5	1.8	1,710			
30 T		7 / 0.43	1.29	0.5	37.2	2.0	2,110			
32 T		7 / 0.43	1.29	0.5	38.7	2.0	2,260			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Fire Resistance
Telephone & Instrument Cable
(Non Screen)

150/250V SFOI

Cable Designation

- 150/250V SFOI

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Inner Covering	F	Halogen Free Tape(Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic Compound (IEC 60092-359, SHF 1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- Core Identification**
- Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red
 - Multi pair/triad cables
Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
 - The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Cable Type 250V SFOI

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1 P		7 / 0.37	1.11	0.5	5.7	9.1	0.9	120			
2 P		7 / 0.37	1.11	0.5	6.8	10.2	0.9	150			
3 P		7 / 0.37	1.11	0.5	10.3	14.6	1.1	280			
4 P		7 / 0.37	1.11	0.5	11.1	15.4	1.1	320			
5 P		7 / 0.37	1.11	0.5	12.7	17.2	1.2	390			
6 P		7 / 0.37	1.11	0.5	13.8	18.3	1.2	440			
7 P		7 / 0.37	1.11	0.5	13.8	18.3	1.2	460			
8 P		7 / 0.37	1.11	0.5	14.9	19.6	1.3	520			
10 P	0.75	7 / 0.37	1.11	0.5	17.0	21.7	1.4	620	26.0	100	0.72
12 P		7 / 0.37	1.11	0.5	17.9	22.8	1.4	700			
14 P		7 / 0.37	1.11	0.5	18.7	23.6	1.4	770			
16 P		7 / 0.37	1.11	0.5	20.3	25.4	1.5	870			
19 P		7 / 0.37	1.11	0.5	21.9	27.0	1.6	990			
20 P		7 / 0.37	1.11	0.5	21.9	27.0	1.6	1,010			
24 P		7 / 0.37	1.11	0.5	25.4	30.9	1.7	1,240			
30 P		7 / 0.37	1.11	0.5	27.8	33.5	1.8	1,480			
37 P		7 / 0.37	1.11	0.5	30.0	35.9	1.9	1,730			
1 P		7 / 0.43	1.29	0.5	6.1	9.5	0.9	130			
2 P		7 / 0.43	1.29	0.5	7.3	10.7	0.9	170			
3 P		7 / 0.43	1.29	0.5	11.0	15.3	1.1	320			
4 P		7 / 0.43	1.29	0.5	11.9	16.2	1.1	360			
5 P		7 / 0.43	1.29	0.5	13.6	18.1	1.2	440			
6 P		7 / 0.43	1.29	0.5	14.8	19.5	1.3	510			
7 P		7 / 0.43	1.29	0.5	14.8	19.5	1.3	530			
8 P		7 / 0.43	1.29	0.5	16.0	20.7	1.3	590			
10 P	1.0	7 / 0.43	1.29	0.5	18.3	23.2	1.4	730	19.2	110	0.72
12 P		7 / 0.43	1.29	0.5	19.2	24.1	1.5	810			
14 P		7 / 0.43	1.29	0.5	20.0	25.1	1.5	900			
16 P		7 / 0.43	1.29	0.5	21.8	26.9	1.6	1,010			
19 P		7 / 0.43	1.29	0.5	23.5	28.8	1.7	1,160			
20 P		7 / 0.43	1.29	0.5	23.5	28.8	1.7	1,190			
24 P		7 / 0.43	1.29	0.5	27.3	33.0	1.8	1,460			
30 P		7 / 0.43	1.29	0.5	29.9	35.8	1.9	1,740			
37 P		7 / 0.43	1.29	0.5	32.2	38.8	2.1	2,140			
1 P		7 / 0.53	1.59	0.6	7.1	10.5	0.9	160			
2 P		7 / 0.53	1.59	0.6	8.5	12.1	1.0	220			
3 P		7 / 0.53	1.59	0.6	12.9	17.4	1.2	400			
4 P		7 / 0.53	1.59	0.6	13.9	18.4	1.2	470			
5 P		7 / 0.53	1.59	0.6	15.9	20.6	1.3	570			
6 P		7 / 0.53	1.59	0.6	17.3	22.2	1.4	660			
7 P		7 / 0.53	1.59	0.6	17.3	22.2	1.4	700			
8 P		7 / 0.53	1.59	0.6	18.7	23.6	1.4	780			
10 P	1.5	7 / 0.53	1.59	0.6	21.4	26.5	1.6	950	12.8	120	0.66
12 P		7 / 0.53	1.59	0.6	22.4	27.7	1.6	1,070			
14 P		7 / 0.53	1.59	0.6	23.4	28.7	1.6	1,180			
16 P		7 / 0.53	1.59	0.6	25.5	31.0	1.7	1,350			
19 P		7 / 0.53	1.59	0.6	27.5	33.2	1.8	1,560			
20 P		7 / 0.53	1.59	0.6	27.5	33.2	1.8	1,590			
24 P		7 / 0.53	1.59	0.6	31.9	38.5	2.0	2,060			
30 P		7 / 0.53	1.59	0.6	35.0	41.8	2.2	2,450			
37 P		7 / 0.53	1.59	0.6	37.7	44.7	2.3	2,880			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

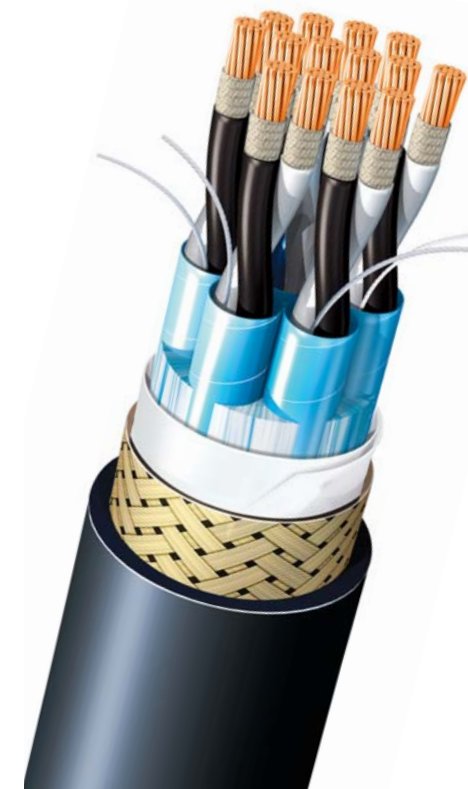
Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V SFOI (MGT+XLPE/LIC/CWB/SHF1)

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km	
1 T		7 / 0.37	1.11	0.5	6.1	9.5	0.9	130			
2 T		7 / 0.37	1.11	0.5	10.6	14.9	1.1	290			
3 T		7 / 0.37	1.11	0.5	11.4	15.7	1.1	340			
4 T		7 / 0.37	1.11	0.5	12.7	17.2	1.2	410			
5 T		7 / 0.37	1.11	0.5	14.3	18.8	1.3	480			
6 T		7 / 0.37	1.11	0.5	16.5	21.2	1.3	590			
7 T		7 / 0.37	1.11	0.5	16.5	21.2	1.3	620			
8 T		7 / 0.37	1.11	0.5	17.9	22.8	1.4	700			
10 T	0.75	7 / 0.37	1.11	0.5	20.6	25.7	1.5	860	26.0	100	0.72
12 T		7 / 0.37	1.11	0.5	21.9	27.0	1.6	970			
14 T		7 / 0.37	1.11	0.5	23.0	28.3	1.6	1,080			
16 T		7 / 0.37	1.11	0.5	24.6	29.9	1.7	1,200			
19 T		7 / 0.37	1.11	0.5	26.8	32.3	1.8	1,390			
20 T		7 / 0.37	1.11	0.5	27.3	33.0	1.8	1,460			
24 T		7 / 0.37	1.11	0.5	30.0	35.9	1.9	1,710			
30 T		7 / 0.37	1.11	0.5	33.5	40.1	2.1	2,170			
32 T		7 / 0.37	1.11	0.5	34.9	41.7	2.2	2,320			
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1 T		7 / 0.43	1.29	0.5	6.5	9.9	0.9	150			
2 T		7 / 0.43	1.29	0.5	11.3	15.6	1.1	320			
3 T		7 / 0.43	1.29	0.5	12.2	16.5	1.2	380			
4 T		7 / 0.43	1.29	0.5	13.6	18.1	1.2	470			
5 T		7 / 0.43	1.29	0.5	15.4	20.1	1.3	560			
6 T		7 / 0.43	1.29	0.5	17.7	22.6	1.4	680			
7 T		7 / 0.43	1.29	0.5	17.7	22.6	1.4	720			
8 T		7 / 0.43	1.29	0.5	19.2	24.1	1.5	810			
10 T	1.0	7 / 0.43	1.29	0.5	22.1	27.2	1.6	990	19.2	110	0.72
12 T		7 / 0.43	1.29	0.5	23.5	28.8	1.7	1,130			
14 T		7 / 0.43	1.29	0.5	24.7	30.0	1.7	1,260			
16 T		7 / 0.43	1.29	0.5	26.4	31.9	1.8	1,410			
19 T		7 / 0.43	1.29	0.5	28.7	34.4	1.9	1,640			
20 T		7 / 0.43	1.29	0.5	29.3	35.0	1.9	1,700			
24 T		7 / 0.43	1.29	0.5	32.2	38.8	2.1	2,110			
30 T		7 / 0.43	1.29	0.5	36.0	42.8	2.2	2,560			
32 T		7 / 0.43	1.29	0.5	37.4	44.4	2.3	2,730			
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1 T		7 / 0.53	1.59	0.6	7.6	11.0	0.9	180			
2 T		7 / 0.53	1.59	0.6	13.2	17.7	1.2	410			
3 T		7 / 0.53	1.59	0.6	14.2	18.7	1.2	490			
4 T		7 / 0.53	1.59	0.6	15.9	20.6	1.3	610			
5 T		7 / 0.53	1.59	0.6	18.0	22.9	1.4	740			
6 T		7 / 0.53	1.59	0.6	20.7	25.8	1.5	890			
7 T		7 / 0.53	1.59	0.6	20.7	25.8	1.5	950			
8 T		7 / 0.53	1.59	0.6	22.4	27.7	1.6	1,070			
10 T	1.5	7 / 0.53	1.59	0.6	25.8	31.3	1.8	1,320	12.8	120	0.66
12 T		7 / 0.53	1.59	0.6	27.5	33.2	1.8	1,520			
14 T		7 / 0.53	1.59	0.6	28.9	34.6	1.9	1,690			
16 T		7 / 0.53	1.59	0.6	30.9	37.3	2.0	1,990			
19 T		7 / 0.53	1.59	0.6	33.7	40.3	2.1	2,310			
20 T		7 / 0.53	1.59	0.6	34.3	41.1	2.1	2,420			
24 T		7 / 0.53	1.59	0.6	37.7	44.7	2.3	2,840			
30 T		7 / 0.53	1.59	0.6	42.1	49.5	2.5	3,460			
32 T		7 / 0.53	1.59	0.6	43.8	51.2	2.5	3,670			



Light Weight

Fire Resistance Telephone & Instrument Cable (Individual Screen)

150/250V SFOI(i)

Cable Designation

- 150/250V SFOI(i)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Covering	F	Halogen Free Tape(Lapped inner covering)
Aarmor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- Core Identification
- 1) Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red
 - 2) Multi pair/triad cables
Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
 - 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable
Normal Telephone & Instrument Cable
Light Weight Power & Control Cable
Light Weight Telephone & Instrument Cable
Technical Data & Installation Information

Cable Type 250V SFOI(i)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km	
1P		7/0.37	1.11	0.5	5.9	9.3	0.9	130			
2P		7/0.37	1.11	0.5	10.0	13.6	1.0	230			
3P		7/0.37	1.11	0.5	10.8	15.1	1.1	320			
4P		7/0.37	1.11	0.5	11.7	16.0	1.1	370			
5P		7/0.37	1.11	0.5	13.4	17.9	1.2	450			
6P		7/0.37	1.11	0.5	14.6	19.1	1.3	510			
7P		7/0.37	1.11	0.5	14.6	19.1	1.3	540			
8P		7/0.37	1.11	0.5	15.7	20.4	1.3	610			
10P	0.75	7/0.37	1.11	0.5	18.0	22.9	1.4	740	26.0	100	0.72
12P		7/0.37	1.11	0.5	18.8	23.7	1.4	830			
14P		7/0.37	1.11	0.5	19.7	24.6	1.5	910			
16P		7/0.37	1.11	0.5	21.4	26.5	1.6	1,040			
19P		7/0.37	1.11	0.5	23.1	28.4	1.6	1,200			
20P		7/0.37	1.11	0.5	23.1	28.4	1.6	1,230			
24P		7/0.37	1.11	0.5	26.8	32.3	1.8	1,490			
30P		7/0.37	1.11	0.5	29.4	35.1	1.9	1,790			
37P		7/0.37	1.11	0.5	31.7	38.1	2.0	2,200			
1P		7/0.43	1.29	0.5	6.3	9.7	0.9	140			
2P		7/0.43	1.29	0.5	10.7	15.0	1.1	300			
3P		7/0.43	1.29	0.5	11.6	15.9	1.1	360			
4P		7/0.43	1.29	0.5	12.5	17.0	1.2	430			
5P		7/0.43	1.29	0.5	14.3	18.8	1.3	510			
6P		7/0.43	1.29	0.5	15.6	20.3	1.3	600			
7P		7/0.43	1.29	0.5	15.6	20.3	1.3	630			
8P		7/0.43	1.29	0.5	16.8	21.5	1.4	700			
10P	1.0	7/0.43	1.29	0.5	19.2	24.1	1.5	860	19.2	110	0.69
12P		7/0.43	1.29	0.5	20.1	25.2	1.5	980			
14P		7/0.43	1.29	0.5	21.0	26.1	1.5	1,080			
16P		7/0.43	1.29	0.5	22.9	28.2	1.6	1,230			
19P		7/0.43	1.29	0.5	24.7	30.0	1.7	1,410			
20P		7/0.43	1.29	0.5	24.7	30.0	1.7	1,450			
24P		7/0.43	1.29	0.5	28.7	34.4	1.9	1,780			
30P		7/0.43	1.29	0.5	31.4	37.8	2.0	2,220			
37P		7/0.43	1.29	0.5	33.9	40.5	2.1	2,620			
1P		7/0.53	1.59	0.6	7.3	10.7	0.9	170			
2P		7/0.53	1.59	0.6	12.4	16.9	1.2	380			
3P		7/0.53	1.59	0.6	13.4	17.9	1.2	450			
4P		7/0.53	1.59	0.6	14.5	19.0	1.3	530			
5P		7/0.53	1.59	0.6	16.6	21.3	1.4	650			
6P		7/0.53	1.59	0.6	18.1	23.0	1.4	750			
7P		7/0.53	1.59	0.6	18.1	23.0	1.4	800			
8P		7/0.53	1.59	0.6	19.5	24.4	1.5	890			
10P	1.5	7/0.53	1.59	0.6	22.3	27.6	1.6	1,110	12.8	120	0.66
12P		7/0.53	1.59	0.6	23.4	28.7	1.6	1,250			
14P		7/0.53	1.59	0.6	24.4	29.7	1.7	1,380			
16P		7/0.53	1.59	0.6	26.6	32.1	1.8	1,580			
19P		7/0.53	1.59	0.6	28.7	34.4	1.9	1,820			
20P		7/0.53	1.59	0.6	28.7	34.4	1.9	1,870			
24P		7/0.53	1.59	0.6	33.3	39.9	2.1	2,400			
30P		7/0.53	1.59	0.6	36.5	43.3	2.2	2,870			
37P		7/0.53	1.59	0.6	39.4	46.6	2.4	3,410			

Cable Type 250V SFOI(i)

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km	
1T		7/0.37	1.11	0.5	6.3	9.7	0.9	140			
2T		7/0.37	1.11	0.5	11.1	15.4	1.1	320			
3T		7/0.37	1.11	0.5	11.9	16.2	1.1	380			
4T		7/0.37	1.11	0.5	13.4	17.9	1.2	460			
5T		7/0.37	1.11	0.5	15.1	19.8	1.3	560			
6T		7/0.37	1.11	0.5	17.3	22.2	1.4	670			
7T		7/0.37	1.11	0.5	17.3	22.2	1.4	710			
8T		7/0.37	1.11	0.5	18.8	23.7	1.4	800			
10T	0.75	7/0.37	1.11	0.5	21.6	26.7	1.6	980	26.0	100	0.72
12T		7/0.37	1.11	0.5	23.0	28.3	1.6	1,120			
14T		7/0.37	1.11	0.5	24.1	29.4	1.7	1,240			
16T		7/0.37	1.11	0.5	25.9	31.4	1.8	1,400			
19T		7/0.37	1.11	0.5	28.2	33.9	1.9	1,620			
20T		7/0.37	1.11	0.5	28.7	34.4	1.9	1,680			
24T		7/0.37	1.11	0.5	31.5	37.9	2.0	2,070			
30T		7/0.37	1.11	0.5	35.2	42.0	2.2	2,520			
32T		7/0.37	1.11	0.5	36.6	43.4	2.2	2,670			
1T		7/0.43	1.29	0.5	6.7	10.1	0.9	160			
2T		7/0.43	1.29	0.5	11.8	16.1	1.1	360			
3T		7/0.43	1.29	0.5	12.8	17.3	1.2	440			
4T		7/0.43	1.29	0.5	14.3	18.8	1.3	530			
5T		7/0.43	1.29	0.5	16.1	20.8	1.3	640			
6T		7/0.43	1.29	0.5	18.5	23.4	1.4	770			
7T		7/0.43	1.29	0.5	18.5	23.4	1.4	820			
8T		7/0.43	1.29	0.5	20.1	25.2	1.5	930			
10T	1.0	7/0.43	1.29	0.5	23.1	28.4	1.6	1,150	19.2	110	0.69
12T		7/0.43	1.29	0.5	24.6	29.9	1.7	1,310			
14T		7/0.43	1.29	0.5	25.8	31.3	1.8	1,470			
16T		7/0.43	1.29	0.5	27.7	33.4	1.8	1,660			
19T		7/0.43	1.29	0.5	30.1	36.5	2.0	2,010			
20T		7/0.43	1.29	0.5	30.7	37.1	2.0	2,090			
24T		7/0.43	1.29	0.5	33.7	40.3	2.1	2,450			
30T		7/0.43	1.29	0.5	37.7	44.7	2.3	3,000			
32T		7/0.43	1.29	0.5	39.2	46.2	2.3	3,180			
1T		7/0.53	1.59	0.6	7.8	11.4	1.0	200			
2T		7/0.53	1.59	0.6	13.7	18.2	1.2	450			
3T		7/0.53	1.59	0.6	14.8	19.5	1.3	560			
4T		7/0.53	1.59	0.6	16.6	21.3	1.4	670			
5T		7/0.53	1.59	0.6	18.7	23.6	1.4	820			
6T		7/0.53	1.59	0.6	21.5	26.6	1.6	990			
7T		7/0.53	1.59	0.6	21.5	26.6	1.6	1,060			
8T		7/0.53	1.59	0.6	23.3	28.6	1.6	1,200			
10T	1.5	7/0.53	1.59	0.6	26.8	32.3	1.8	1,480	12.8	120	0.66
12T		7/0.53	1.59	0.6	28.6	34.3	1.9	1,700			
14T		7/0.53	1.59	0.6	30.0	35.9	1.9	1,920			
16T		7/0.53	1.59	0.6	32.2	38.8	2.1	2,260			
19T		7/0.53	1.59	0.6	35.0	41.8	2.2	2,620			
20T		7/0.53	1.59	0.6	35.7	42.5	2.2	2,720			
24T		7/0.53	1.59	0.6	39.2	46.2	2.3	3,200			
30T		7/0.53	1.59	0.6	43.8	51.2	2.5	3,910			
32T		7/0.53	1.59	0.6	45.6	53.2	2.6	4,180			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Fire Resistance
Telephone & Instrument Cable
(Collective Screen)

150/250V SFOI(c)

Cable Designation

- 150/250V SFOI(c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	F	Halogen Free Tape(Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- Core Identification**
- 1) Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red
 - 2) Multi pair/triad cables
Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.
 - 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Cable Type 250V SFOI(c)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1P		7 / 0.37	1.11	0.5	5.9	9.3	0.9	130			
2P		7 / 0.37	1.11	0.5	7.0	10.4	0.9	170			
3P		7 / 0.37	1.11	0.5	10.5	14.8	1.1	300			
4P		7 / 0.37	1.11	0.5	11.3	15.6	1.1	340			
5P		7 / 0.37	1.11	0.5	12.9	17.4	1.2	410			
6P		7 / 0.37	1.11	0.5	14.0	18.5	1.2	460			
7P		7 / 0.37	1.11	0.5	14.0	18.5	1.2	480			
8P		7 / 0.37	1.11	0.5	15.1	19.8	1.3	540			
10P	0.75	7 / 0.37	1.11	0.5	17.2	21.9	1.4	640	26.0	95	0.72
12P		7 / 0.37	1.11	0.5	18.1	23.0	1.4	720			
14P		7 / 0.37	1.11	0.5	18.9	23.8	1.5	790			
16P		7 / 0.37	1.11	0.5	20.5	25.6	1.5	900			
19P		7 / 0.37	1.11	0.5	22.1	27.2	1.6	1,010			
20P		7 / 0.37	1.11	0.5	22.1	27.2	1.6	1,030			
24P		7 / 0.37	1.11	0.5	25.6	31.1	1.7	1,270			
30P		7 / 0.37	1.11	0.5	28.0	33.7	1.8	1,510			
37P		7 / 0.37	1.11	0.5	30.2	36.6	2.0	1,850			
1P		7 / 0.43	1.29	0.5	6.3	9.7	0.9	140			
2P		7 / 0.43	1.29	0.5	7.5	10.9	0.9	190			
3P		7 / 0.43	1.29	0.5	11.2	15.5	1.1	340			
4P		7 / 0.43	1.29	0.5	12.1	16.4	1.2	380			
5P		7 / 0.43	1.29	0.5	13.8	18.3	1.2	460			
6P		7 / 0.43	1.29	0.5	15.0	19.7	1.3	530			
7P		7 / 0.43	1.29	0.5	15.0	19.7	1.3	560			
8P		7 / 0.43	1.29	0.5	16.2	20.9	1.3	620			
10P	1.0	7 / 0.43	1.29	0.5	18.5	23.4	1.4	750	19.2	100	0.69
12P		7 / 0.43	1.29	0.5	19.4	24.3	1.5	830			
14P		7 / 0.43	1.29	0.5	20.2	25.3	1.5	920			
16P		7 / 0.43	1.29	0.5	22.0	27.1	1.6	1,040			
19P		7 / 0.43	1.29	0.5	23.7	29.0	1.7	1,190			
20P		7 / 0.43	1.29	0.5	23.7	29.0	1.7	1,220			
24P		7 / 0.43	1.29	0.5	27.5	33.2	1.8	1,500			
30P		7 / 0.43	1.29	0.5	30.1	36.5	2.0	1,870			
37P		7 / 0.43	1.29	0.5	32.4	39.0	2.1	2,180			
1P		7 / 0.53	1.59	0.6	7.3	10.7	0.9	170			
2P		7 / 0.53	1.59	0.6	8.7	12.3	1.0	240			
3P		7 / 0.53	1.59	0.6	13.1	17.6	1.2	430			
4P		7 / 0.53	1.59	0.6	14.1	18.6	1.2	490			
5P		7 / 0.53	1.59	0.6	16.1	20.8	1.3	590			
6P		7 / 0.53	1.59	0.6	17.5	22.4	1.4	680			
7P		7 / 0.53	1.59	0.6	17.5	22.4	1.4	720			
8P		7 / 0.53	1.59	0.6	18.9	23.8	1.5	800			
10P	1.5	7 / 0.53	1.59	0.6	21.6	26.7	1.6	980	12.8	110	0.66
12P		7 / 0.53	1.59	0.6	22.6	27.9	1.6	1,100			
14P		7 / 0.53	1.59	0.6	23.6	28.9	1.7	1,210			
16P		7 / 0.53	1.59	0.6	25.7	31.2	1.7	1,380			
19P		7 / 0.53	1.59	0.6	27.7	33.4	1.8	1,590			
20P		7 / 0.53	1.59	0.6	27.7	33.4	1.8	1,630			
24P		7 / 0.53	1.59	0.6	32.1	38.7	2.0	2,100			
30P		7 / 0.53	1.59	0.6	35.2	42.0	2.2	2,490			
37P		7 / 0.53	1.59	0.6	37.9	44.9	2.3	2,920			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

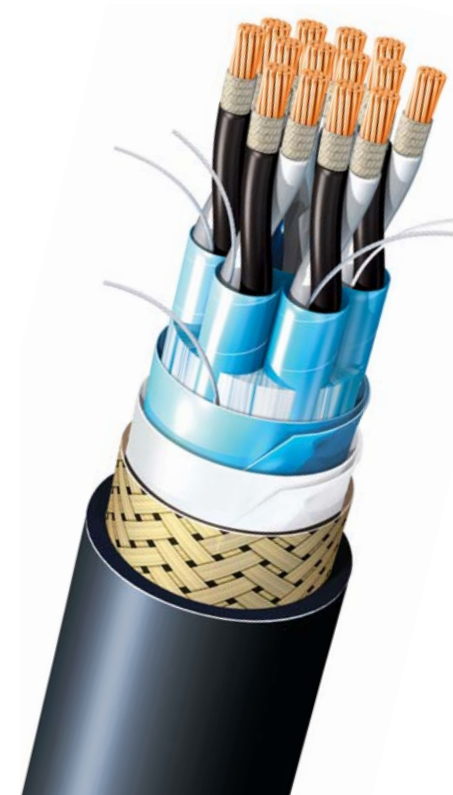
Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V SFOI(c)

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.) Ω/km	Capacitance nF/km	Inductance mH/km
	Nominal Area mm ²	Strand No./mm	Dia. mm			Nominal mm	Tolerance ±mm				
1T		7/0.37	1.11	0.5	6.3	9.7	0.9	140			
2T		7/0.37	1.11	0.5	10.8	15.1	1.1	310			
3T		7/0.37	1.11	0.5	11.6	15.9	1.1	360			
4T		7/0.37	1.11	0.5	12.9	17.4	1.2	430			
5T		7/0.37	1.11	0.5	14.5	19.0	1.3	500			
6T		7/0.37	1.11	0.5	16.7	21.4	1.4	610			
7T		7/0.37	1.11	0.5	16.7	21.4	1.4	640			
8T		7/0.37	1.11	0.5	18.1	23.0	1.4	720			
10T	0.75	7/0.37	1.11	0.5	20.8	25.9	1.5	890	26.0	95	0.72
12T		7/0.37	1.11	0.5	22.1	27.2	1.6	990			
14T		7/0.37	1.11	0.5	23.2	28.5	1.6	1,110			
16T		7/0.37	1.11	0.5	24.8	30.3	1.7	1,240			
19T		7/0.37	1.11	0.5	27.0	32.5	1.8	1,420			
20T		7/0.37	1.11	0.5	27.5	33.2	1.8	1,490			
24T		7/0.37	1.11	0.5	30.2	36.6	2.0	1,830			
30T		7/0.37	1.11	0.5	33.7	40.3	2.1	2,200			
32T		7/0.37	1.11	0.5	35.1	41.9	2.2	2,360			
1T		7/0.43	1.29	0.5	6.7	10.1	0.9	160			
2T		7/0.43	1.29	0.5	11.5	15.8	1.1	340			
3T		7/0.43	1.29	0.5	12.4	16.9	1.2	410			
4T		7/0.43	1.29	0.5	13.8	18.3	1.2	490			
5T		7/0.43	1.29	0.5	15.6	20.3	1.3	590			
6T		7/0.43	1.29	0.5	17.9	22.8	1.4	710			
7T		7/0.43	1.29	0.5	17.9	22.8	1.4	750			
8T		7/0.43	1.29	0.5	19.4	24.3	1.5	830			
10T	1.0	7/0.43	1.29	0.5	22.3	27.6	1.6	1,030	19.2	100	0.69
12T		7/0.43	1.29	0.5	23.7	29.0	1.7	1,160			
14T		7/0.43	1.29	0.5	24.9	30.4	1.7	1,300			
16T		7/0.43	1.29	0.5	26.6	32.1	1.8	1,450			
19T		7/0.43	1.29	0.5	28.9	34.6	1.9	1,670			
20T		7/0.43	1.29	0.5	29.5	35.2	1.9	1,740			
24T		7/0.43	1.29	0.5	32.4	39.0	2.1	2,150			
30T		7/0.43	1.29	0.5	36.2	43.0	2.2	2,600			
32T		7/0.43	1.29	0.5	37.6	44.6	2.3	2,770			
1T		7/0.53	1.59	0.6	7.8	11.4	1.0	200			
2T		7/0.53	1.59	0.6	13.4	17.9	1.2	430			
3T		7/0.53	1.59	0.6	14.4	18.9	1.3	520			
4T		7/0.53	1.59	0.6	16.1	20.8	1.3	630			
5T		7/0.53	1.59	0.6	18.2	23.1	1.4	760			
6T		7/0.53	1.59	0.6	20.9	26.0	1.5	920			
7T		7/0.53	1.59	0.6	20.9	26.0	1.5	970			
8T		7/0.53	1.59	0.6	22.6	27.9	1.6	1,100			
10T	1.5	7/0.53	1.59	0.6	26.0	31.5	1.8	1,360	12.8	110	0.66
12T		7/0.53	1.59	0.6	27.7	33.4	1.8	1,550			
14T		7/0.53	1.59	0.6	29.1	34.8	1.9	1,720			
16T		7/0.53	1.59	0.6	31.1	37.5	2.0	2,030			
19T		7/0.53	1.59	0.6	33.9	40.5	2.1	2,350			
20T		7/0.53	1.59	0.6	34.5	41.3	2.2	2,460			
24T		7/0.53	1.59	0.6	37.9	44.9	2.3	2,880			
30T		7/0.53	1.59	0.6	42.3	49.7	2.5	3,510			
32T		7/0.53	1.59	0.6	44.0	51.4	2.6	3,720			



Light Weight
Fire Resistance
Telephone & Instrument Cable
(Individual & Collective Screen)

150/250V SFOI(i&c)

Cable Designation

- 150/250V SFOI(i&c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)

Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	F	Halogen Free Tape(Lapped inner covering)
Armor	O	Copper Wire Braid (O)
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable
 Normal Telephone & Instrument Cable
 Light Weight Power & Control Cable
 Light Weight Telephone & Instrument Cable
 Technical Data & Installation Information

Cable Type 250V SFOI(i&c)

Cable Type 250V SFOI(i&c)

No. of Pairs	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
	mm ²	No./mm	mm			mm	±mm				
1P		7/0.37	1.11	0.5	5.9	9.3	0.9	130			
2P		7/0.37	1.11	0.5	10.2	14.5	1.1	290			
3P		7/0.37	1.11	0.5	11.0	15.3	1.1	340			
4P		7/0.37	1.11	0.5	11.9	16.2	1.1	390			
5P		7/0.37	1.11	0.5	13.6	18.1	1.2	470			
6P		7/0.37	1.11	0.5	14.8	19.5	1.3	540			
7P		7/0.37	1.11	0.5	14.8	19.5	1.3	570			
8P		7/0.37	1.11	0.5	15.9	20.6	1.3	630			
10P	0.75	7/0.37	1.11	0.5	18.2	23.1	1.4	770	26.0	95	0.72
12P		7/0.37	1.11	0.5	19.0	23.9	1.5	850			
14P		7/0.37	1.11	0.5	19.9	25.0	1.5	950			
16P		7/0.37	1.11	0.5	21.6	26.7	1.6	1,070			
19P		7/0.37	1.11	0.5	23.3	28.6	1.6	1,230			
20P		7/0.37	1.11	0.5	23.3	28.6	1.6	1,250			
24P		7/0.37	1.11	0.5	27.0	32.5	1.8	1,530			
30P		7/0.37	1.11	0.5	29.6	35.3	1.9	1,820			
37P		7/0.37	1.11	0.5	31.9	38.5	2.0	2,250			
1P		7/0.43	1.29	0.5	6.3	9.7	0.9	140			
2P		7/0.43	1.29	0.5	10.9	15.2	1.1	320			
3P		7/0.43	1.29	0.5	11.8	16.1	1.1	380			
4P		7/0.43	1.29	0.5	12.7	17.2	1.2	450			
5P		7/0.43	1.29	0.5	14.5	19.0	1.3	540			
6P		7/0.43	1.29	0.5	15.8	20.5	1.3	620			
7P		7/0.43	1.29	0.5	15.8	20.5	1.3	660			
8P		7/0.43	1.29	0.5	17.0	21.7	1.4	730			
10P	1.0	7/0.43	1.29	0.5	19.4	24.3	1.5	890	19.2	100	0.69
12P		7/0.43	1.29	0.5	20.3	25.4	1.5	1,000			
14P		7/0.43	1.29	0.5	21.2	26.3	1.6	1,110			
16P		7/0.43	1.29	0.5	23.1	28.4	1.6	1,260			
19P		7/0.43	1.29	0.5	24.9	30.4	1.7	1,450			
20P		7/0.43	1.29	0.5	24.9	30.4	1.7	1,490			
24P		7/0.43	1.29	0.5	28.9	34.6	1.9	1,810			
30P		7/0.43	1.29	0.5	31.6	38.0	2.0	2,260			
37P		7/0.43	1.29	0.5	34.1	40.7	2.1	2,660			
1P		7/0.53	1.59	0.6	7.3	10.7	0.9	170			
2P		7/0.53	1.59	0.6	12.6	17.1	1.2	400			
3P		7/0.53	1.59	0.6	13.6	18.1	1.2	470			
4P		7/0.53	1.59	0.6	14.7	19.2	1.3	550			
5P		7/0.53	1.59	0.6	16.8	21.5	1.4	670			
6P		7/0.53	1.59	0.6	18.3	23.2	1.4	780			
7P		7/0.53	1.59	0.6	18.3	23.2	1.4	830			
8P		7/0.53	1.59	0.6	19.7	24.6	1.5	920			
10P	1.5	7/0.53	1.59	0.6	22.5	27.8	1.6	1,140	12.8	110	0.66
12P		7/0.53	1.59	0.6	23.6	28.9	1.7	1,280			
14P		7/0.53	1.59	0.6	24.6	29.9	1.7	1,410			
16P		7/0.53	1.59	0.6	26.8	32.3	1.8	1,610			
19P		7/0.53	1.59	0.6	28.9	34.6	1.9	1,860			
20P		7/0.53	1.59	0.6	28.9	34.6	1.9	1,910			
24P		7/0.53	1.59	0.6	33.5	40.1	2.1	2,440			
30P		7/0.53	1.59	0.6	36.7	43.5	2.2	2,910			
37P		7/0.53	1.59	0.6	39.6	46.8	2.4	3,460			

No. of Triads	Conductor			Thickness of Insulation	Nominal Dia. Inner Covering	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.			Nominal	Tolerance				
	mm ²	No./mm	mm			mm	±mm				
1T		7/0.37	1.11	0.5	6.3	9.7	0.9	150			
2T		7/0.37	1.11	0.5	11.3	15.6	1.1	340			
3T		7/0.37	1.11	0.5	12.1	16.4	1.2	400			
4T		7/0.37	1.11	0.5	13.6	18.1	1.2	480			
5T		7/0.37	1.11	0.5	15.3	20.0	1.3	580			
6T		7/0.37	1.11	0.5	17.5	22.4	1.4	690			
7T		7/0.37	1.11	0.5	17.5	22.4	1.4	730			
8T		7/0.37	1.11	0.5	19.0	23.9	1.5	820			
10T	0.75	7/0.37	1.11	0.5	21.8	26.9	1.6	1,000	26.0	95	0.72
12T		7/0.37	1.11	0.5	23.2	28.5	1.6	1,150			
14T		7/0.37	1.11	0.5	24.3	29.6	1.7	1,270			
16T		7/0.37	1.11	0.5	26.1	31.6	1.8	1,430			
19T		7/0.37	1.11	0.5	28.4	34.1	1.9	1,660			
20T		7/0.37	1.11	0.5	28.9	34.6	1.9	1,720			
24T		7/0.37	1.11	0.5	31.7	38.1	2.0	2,110			
30T		7/0.37	1.11	0.5	35.4	42.2	2.2	2,560			
32T		7/0.37	1.11	0.5	36.8	43.8	2.3	2,740			
1T		7/0.43	1.29	0.5	6.7	10.1	0.9	160			
2T		7/0.43	1.29	0.5	12.0	16.3	1.2	380			
3T		7/0.43	1.29	0.5	13.0	17.5	1.2	460			
4T		7/0.43	1.29	0.5	14.5	19.0	1.3	550			
5T		7/0.43	1.29	0.5	16.3	21.0	1.3	660			
6T		7/0.43	1.29	0.5	18.7	23.6	1.4	800			
7T		7/0.43	1.29	0.5	18.7	23.6	1.4	850			
8T		7/0.43	1.29	0.5	20.3	25.4	1.5	960			
10T	1.0	7/0.43	1.29	0.5	23.3	28.6	1.6	1,180	19.2	100	0.69
12T		7/0.43	1.29	0.5	24.8	30.3	1.7	1,350			
14T		7/0.43	1.29	0.5	26.0	31.5	1.8	1,500			
16T		7/0.43	1.29	0.5	27.9	33.6	1.8	1,690			
19T		7/0.43	1.29	0.5	30.3	36.7	2.0	2,050			
20T		7/0.43	1.29	0.5	30.9	37.3	2.0	2,130			
24T		7/0.43	1.29	0.5	33.9	40.5	2.1	2,490			
30T		7/0.43	1.29	0.5	37.9	44.9	2.3	3,040			
32T		7/0.43	1.29	0.5	39.4	46.6	2.4	3,240			
1T		7/0.53	1.59	0.6	7.8	11.4	1.0	200			
2T		7/0.53	1.59	0.6	13.9	18.4	1.2	470			
3T		7/0.53	1.59	0.6	15.0	19.7	1.3	580			
4T		7/0.53	1.59	0.6	16.8	21.5	1.4	700			
5T		7/0.53	1.59	0.6	18.9	23.8	1.5	840			
6T		7/0.53	1.59	0.6	21.7	26.8	1.6	1,020			
7T		7/0.53	1.59	0.6	21.7	26.8	1.6	1,080			
8T		7/0.53	1.59	0.6	23.5	28.8	1.7	1,230			
10T	1.5	7/0.53	1.59	0.6	27.0	32.5	1.8	1,510	12.8	110	0.66
12T		7/0.53	1.59	0.6	28.8	34.5	1.9	1,740			
14T		7/0.53	1.59	0.6	30.2	36.6	2.0	2,040			
16T		7/0.53	1.59	0.6	32.4	39.0	2.1	2,300			
19T		7/0.53	1.59	0.6	35.2	42.0	2.2	2,660			
20T		7/0.53	1.59	0.6	35.9	42.7	2.2	2,760			
24T		7/0.53	1.59	0.6	39.4	46.6	2.4	3,270			
30T		7/0.53	1.59	0.6	44.0	51.4	2.6	3,960			
32T		7/0.53	1.59	0.6	45.8	53.4	2.6	4,230			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Fire Resistance
Telephone & Instrument Cable
(Individual Screen)

150/250V SXXI(i)

Cable Designation

- 150/250V SXXI(i)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Inner Covering	X	Non
Armor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF-1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- 1) Each pair/triad
 - Pairs : Black, White
 - Triads : Black, White, Red

Core Identification
 2) Multi pair/triad cables
 Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.

- 3) The other color scheme may be applicable when purchaser required.

Cable Type 250V SXXI(i)

No. of Pairs	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	7.9	0.8	80			
2 P		7 / 0.37	1.11	0.5	12.4	1.0	170			
3 P		7 / 0.37	1.11	0.5	13.2	1.0	210			
4 P		7 / 0.37	1.11	0.5	14.3	1.1	260			
5 P		7 / 0.37	1.11	0.5	16.0	1.1	320			
6 P		7 / 0.37	1.11	0.5	17.4	1.2	380			
7 P		7 / 0.37	1.11	0.5	17.4	1.2	410			
8 P		7 / 0.37	1.11	0.5	18.5	1.2	460			
10 P	0.75	7 / 0.37	1.11	0.5	21.0	1.3	570	26.0	100	0.72
12 P		7 / 0.37	1.11	0.5	21.8	1.4	650			
14 P		7 / 0.37	1.11	0.5	22.9	1.4	740			
16 P		7 / 0.37	1.11	0.5	24.6	1.5	840			
19 P		7 / 0.37	1.11	0.5	26.5	1.6	980			
20 P		7 / 0.37	1.11	0.5	26.5	1.6	1,010			
24 P		7 / 0.37	1.11	0.5	30.6	1.7	1,260			
30 P		7 / 0.37	1.11	0.5	33.4	1.8	1,530			
37 P		7 / 0.37	1.11	0.5	35.9	1.9	1,830			
1 P		7 / 0.43	1.29	0.5	8.3	0.8	90			
2 P		7 / 0.43	1.29	0.5	13.1	1.0	200			
3 P		7 / 0.43	1.29	0.5	14.2	1.1	250			
4 P		7 / 0.43	1.29	0.5	15.1	1.1	310			
5 P		7 / 0.43	1.29	0.5	17.1	1.2	380			
6 P		7 / 0.43	1.29	0.5	18.4	1.2	440			
7 P		7 / 0.43	1.29	0.5	18.4	1.2	480			
8 P		7 / 0.43	1.29	0.5	19.8	1.3	550			
10 P	1.0	7 / 0.43	1.29	0.5	22.4	1.4	690	19.2	110	0.69
12 P		7 / 0.43	1.29	0.5	23.3	1.4	780			
14 P		7 / 0.43	1.29	0.5	24.2	1.5	880			
16 P		7 / 0.43	1.29	0.5	26.3	1.6	1,020			
19 P		7 / 0.43	1.29	0.5	28.3	1.6	1,190			
20 P		7 / 0.43	1.29	0.5	28.3	1.6	1,230			
24 P		7 / 0.43	1.29	0.5	32.5	1.8	1,510			
30 P		7 / 0.43	1.29	0.5	35.4	1.9	1,840			
37 P		7 / 0.43	1.29	0.5	38.1	2.0	2,210			

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V SXXI(i)

No. of Triads	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km
1 T		7 / 0.37	1.11	0.5	8.3	0.8	100			
2 T		7 / 0.37	1.11	0.5	13.5	1.0	210			
3 T		7 / 0.37	1.11	0.5	14.5	1.1	270			
4 T		7 / 0.37	1.11	0.5	16.0	1.1	330			
5 T		7 / 0.37	1.11	0.5	17.9	1.2	410			
6 T		7 / 0.37	1.11	0.5	20.3	1.3	500			
7 T		7 / 0.37	1.11	0.5	20.3	1.3	540			
8 T		7 / 0.37	1.11	0.5	21.8	1.4	620			
10 T	0.75	7 / 0.37	1.11	0.5	25.0	1.5	780	26.0	100	0.72
12 T		7 / 0.37	1.11	0.5	26.4	1.6	900			
14 T		7 / 0.37	1.11	0.5	27.7	1.6	1,020			
16 T		7 / 0.37	1.11	0.5	29.5	1.7	1,160			
19 T		7 / 0.37	1.11	0.5	32.0	1.8	1,360			
20 T		7 / 0.37	1.11	0.5	32.5	1.8	1,420			
24 T		7 / 0.37	1.11	0.5	35.7	1.9	1,700			
30 T		7 / 0.37	1.11	0.5	39.6	2.1	2,100			
32 T		7 / 0.37	1.11	0.5	41.2	2.1	2,250			
1 T		7 / 0.43	1.29	0.5	8.9	0.9	120			
2 T		7 / 0.43	1.29	0.5	14.4	1.1	250			
3 T		7 / 0.43	1.29	0.5	15.4	1.1	310			
4 T		7 / 0.43	1.29	0.5	17.1	1.2	400			
5 T		7 / 0.43	1.29	0.5	18.9	1.3	480			
6 T		7 / 0.43	1.29	0.5	21.5	1.4	590			
7 T		7 / 0.43	1.29	0.5	21.5	1.4	640			
8 T		7 / 0.43	1.29	0.5	23.3	1.4	740			
10 T	1.0	7 / 0.43	1.29	0.5	26.5	1.6	930	19.2	110	0.69
12 T		7 / 0.43	1.29	0.5	28.2	1.6	1,090			
14 T		7 / 0.43	1.29	0.5	29.4	1.7	1,220			
16 T		7 / 0.43	1.29	0.5	31.5	1.8	1,400			
19 T		7 / 0.43	1.29	0.5	34.1	1.9	1,640			
20 T		7 / 0.43	1.29	0.5	34.7	1.9	1,710			
24 T		7 / 0.43	1.29	0.5	37.9	2.0	2,040			
30 T		7 / 0.43	1.29	0.5	42.3	2.2	2,540			
32 T		7 / 0.43	1.29	0.5	44.0	2.3	2,720			



**Light Weight
Fire Resistance
Telephone & Instrument Cable
(Collective Screen)**

150/250V SXXI(c)

Cable Designation

- 150/250V SXXI(c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	X	Non
Armor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue
Core Identification		1) Each pair/triad - Pairs : Black, White - Triads : Black, White, Red 2) Multi pair/triad cables Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores. 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Normal Power & Control Cable
Normal Telephone & Instrument Cable
Light Weight Power & Control Cable
Light Weight Telephone & Instrument Cable
Technical Data & Installation Information

Cable Type 250V SXXI(c)

No. of Pairs	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1P		7/0.37	1.11	0.5	7.9	0.8	80			
2P		7/0.37	1.11	0.5	9.2	0.9	120			
3P		7/0.37	1.11	0.5	12.9	1.0	190			
4P		7/0.37	1.11	0.5	13.7	1.0	230			
5P		7/0.37	1.11	0.5	15.5	1.1	280			
6P		7/0.37	1.11	0.5	16.8	1.2	330			
7P		7/0.37	1.11	0.5	16.8	1.2	350			
8P		7/0.37	1.11	0.5	17.9	1.2	390			
10P	0.75	7/0.37	1.11	0.5	20.2	1.3	490	26.0	95	0.72
12P		7/0.37	1.11	0.5	21.1	1.3	550			
14P		7/0.37	1.11	0.5	21.9	1.4	610			
16P		7/0.37	1.11	0.5	23.7	1.4	700			
19P		7/0.37	1.11	0.5	25.5	1.5	820			
20P		7/0.37	1.11	0.5	25.5	1.5	840			
24P		7/0.37	1.11	0.5	29.2	1.7	1,030			
30P		7/0.37	1.11	0.5	31.8	1.8	1,250			
37P		7/0.37	1.11	0.5	34.2	1.9	1,480			
1P		7/0.43	1.29	0.5	8.3	0.8	90			
2P		7/0.43	1.29	0.5	9.7	0.9	140			
3P		7/0.43	1.29	0.5	13.6	1.0	220			
4P		7/0.43	1.29	0.5	14.7	1.1	270			
5P		7/0.43	1.29	0.5	16.4	1.2	330			
6P		7/0.43	1.29	0.5	17.8	1.2	380			
7P		7/0.43	1.29	0.5	17.8	1.2	410			
8P		7/0.43	1.29	0.5	19.0	1.3	460			
10P	1.0	7/0.43	1.29	0.5	21.5	1.4	570	19.2	100	0.69
12P		7/0.43	1.29	0.5	22.6	1.4	660			
14P		7/0.43	1.29	0.5	23.4	1.4	730			
16P		7/0.43	1.29	0.5	25.4	1.5	840			
19P		7/0.43	1.29	0.5	27.1	1.6	970			
20P		7/0.43	1.29	0.5	27.1	1.6	990			
24P		7/0.43	1.29	0.5	31.3	1.8	1,240			
30P		7/0.43	1.29	0.5	34.1	1.9	1,500			
37P		7/0.43	1.29	0.5	36.6	2.0	1,780			

Cable Type 250V SXXI(c)

No. of Triads	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km	
1T		7/0.37	1.11	0.5	8.3	0.8	100			
2T		7/0.37	1.11	0.5	13.2	1.0	200			
3T		7/0.37	1.11	0.5	14.2	1.1	250			
4T		7/0.37	1.11	0.5	15.5	1.1	300			
5T		7/0.37	1.11	0.5	17.3	1.2	370			
6T		7/0.37	1.11	0.5	19.7	1.3	460			
7T		7/0.37	1.11	0.5	19.7	1.3	490			
8T		7/0.37	1.11	0.5	21.1	1.3	550			
10T	0.75	7/0.37	1.11	0.5	24.0	1.5	690	26.0	95	0.72
12T		7/0.37	1.11	0.5	25.5	1.5	800			
14T		7/0.37	1.11	0.5	26.6	1.6	890			
16T		7/0.37	1.11	0.5	28.4	1.6	1,010			
19T		7/0.37	1.11	0.5	30.8	1.7	1,180			
20T		7/0.37	1.11	0.5	31.3	1.8	1,230			
24T		7/0.37	1.11	0.5	34.2	1.9	1,460			
30T		7/0.37	1.11	0.5	37.9	2.0	1,790			
32T		7/0.37	1.11	0.5	39.5	2.1	1,930			
1T		7/0.43	1.29	0.5	8.9	0.9	120			
2T		7/0.43	1.29	0.5	14.1	1.1	230			
3T		7/0.43	1.29	0.5	15.0	1.1	290			
4T		7/0.43	1.29	0.5	16.4	1.2	350			
5T		7/0.43	1.29	0.5	18.4	1.2	440			
6T		7/0.43	1.29	0.5	20.9	1.3	530			
7T		7/0.43	1.29	0.5	20.9	1.3	570			
8T		7/0.43	1.29	0.5	22.6	1.4	660			
10T	1.0	7/0.43	1.29	0.5	25.7	1.5	820	19.2	100	0.69
12T		7/0.43	1.29	0.5	27.1	1.6	940			
14T		7/0.43	1.29	0.5	28.5	1.6	1,070			
16T		7/0.43	1.29	0.5	30.4	1.7	1,210			
19T		7/0.43	1.29	0.5	32.7	1.8	1,400			
20T		7/0.43	1.29	0.5	33.5	1.8	1,480			
24T		7/0.43	1.29	0.5	36.6	2.0	1,760			
30T		7/0.43	1.29	0.5	40.6	2.1	2,160			
32T		7/0.43	1.29	0.5	42.2	2.2	2,320			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information



Light Weight
Fire Resistance
Telephone & Instrument Cable
(Individual & Collective Screen)

150/250V SXXI(i&c)

Cable Designation

- 150/250V SXXI(i&c)

Application

- This cable is designed for telephone & instrument circuits up to 150/250V.
- Suitable for use in commercial marine applications
- Maximum conductor temperature : 90°C

Application Standard

- Design Guide : IEC 60092-350, 376
- Insulation Material : IEC 60092-351
- Sheath Material : IEC 60092-359
- Flammability : IEC 60332-1 & IEC 60332-3 Category A
- Fire Resistance : IEC 60331 (750°C or 1000°C)
- Halogen Content : IEC 60754-1,2, 0.5%(Max.)
- Smoke Emission : IEC 61034-1,2, 60%(Min.)



Construction

Classification	Code Letter	Construction Detail
Conductor		Plain, Annealed, Stranded copper wire
Fire Resisting Layer	S	Mica/Glass Tape (MGT)
Insulation		Cross-linked Polyethylene (XLPE) as per IEC 60092-351
Individual Screen	(i)	Each pair/triad are individually screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the individual screen.
Collective Screen	(c)	Pair/triad laid up and collective screened by aluminium backed polyester tape (AL/PS tape) with tinned copper drain wire. Suitable binder tape may be wrapped on/below the collective screen.
Inner Covering	X	Non
Aarmor	X	Non
Sheath	I	Halogen Free Thermoplastic compound (IEC 60092-359, SHF1) Sheath color - Non-intrinsically safe cable : Black - Intrinsically safe cable : Blue

- 1) Each pair/triad
- Pairs : Black, White
- Triads : Black, White, Red

Core Identification
 2) Multi pair/triad cables
 Multi pair/triads are identified by lapping of the pair/triad numbered tape or by the pair/triad number print directly on the each cores.

- 3) The other color scheme may be applicable when purchaser required.

* Fire resistance cable to IEC 60331 (at 1000°C) can be supplied if required.

Cable Type 250V SXXI(i&c)

No. of Pairs	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	±mm	kg/km	Ω/km	nF/km	mH/km
1 P		7 / 0.37	1.11	0.5	8.1	0.8	80			
2 P		7 / 0.37	1.11	0.5	12.6	1.0	180			
3 P		7 / 0.37	1.11	0.5	13.4	1.0	230			
4 P		7 / 0.37	1.11	0.5	14.5	1.1	280			
5 P		7 / 0.37	1.11	0.5	16.2	1.1	330			
6 P		7 / 0.37	1.11	0.5	17.6	1.2	390			
7 P		7 / 0.37	1.11	0.5	17.6	1.2	420			
8 P		7 / 0.37	1.11	0.5	18.7	1.2	470			
10 P	0.75	7 / 0.37	1.11	0.5	21.2	1.3	590	26.0	95	0.72
12 P		7 / 0.37	1.11	0.5	22.2	1.4	680			
14 P		7 / 0.37	1.11	0.5	23.1	1.4	760			
16 P		7 / 0.37	1.11	0.5	25.0	1.5	870			
19 P		7 / 0.37	1.11	0.5	26.7	1.6	1,010			
20 P		7 / 0.37	1.11	0.5	26.7	1.6	1,030			
24 P		7 / 0.37	1.11	0.5	30.8	1.7	1,290			
30 P		7 / 0.37	1.11	0.5	33.6	1.8	1,560			
37 P		7 / 0.37	1.11	0.5	36.1	1.9	1,860			
1 P		7 / 0.43	1.29	0.5	8.7	0.8	100			
2 P		7 / 0.43	1.29	0.5	13.3	1.0	210			
3 P		7 / 0.43	1.29	0.5	14.4	1.1	270			
4 P		7 / 0.43	1.29	0.5	15.3	1.1	320			
5 P		7 / 0.43	1.29	0.5	17.3	1.2	400			
6 P		7 / 0.43	1.29	0.5	18.6	1.2	460			
7 P		7 / 0.43	1.29	0.5	18.6	1.2	500			
8 P		7 / 0.43	1.29	0.5	20.0	1.3	570			
10 P	1.0	7 / 0.43	1.29	0.5	22.6	1.4	710	19.2	100	0.69
12 P		7 / 0.43	1.29	0.5	23.5	1.4	810			
14 P		7 / 0.43	1.29	0.5	24.4	1.5	910			
16 P		7 / 0.43	1.29	0.5	26.5	1.6	1,040			
19 P		7 / 0.43	1.29	0.5	28.5	1.6	1,220			
20 P		7 / 0.43	1.29	0.5	28.5	1.6	1,260			
24 P		7 / 0.43	1.29	0.5	32.7	1.8	1,540			
30 P		7 / 0.43	1.29	0.5	35.8	1.9	1,890			
37 P		7 / 0.43	1.29	0.5	38.5	2.0	2,260			

Normal Power & Control Cable

Normal Telephone & Instrument Cable

Light Weight Power & Control Cable

Light Weight Telephone & Instrument Cable

Technical Data & Installation Information

Cable Type 250V SXXI(i&c)

No. of Triads	Conductor			Thickness of Insulation	Overall Diameter		Cable Weight	Conductor Resistance (at 20°C)(max.)	Capacitance	Inductance
	Nominal Area	Strand	Dia.		Nominal	Tolerance				
No.	mm ²	No./mm	mm	mm	mm	± mm	kg/km	Ω/km	nF/km	mH/km
1 T		7 / 0.37	1.11	0.5	8.7	0.8	100			
2 T		7 / 0.37	1.11	0.5	13.7	1.0	220			
3 T		7 / 0.37	1.11	0.5	14.7	1.1	280			
4 T		7 / 0.37	1.11	0.5	16.2	1.1	350			
5 T		7 / 0.37	1.11	0.5	18.1	1.2	430			
6 T		7 / 0.37	1.11	0.5	20.5	1.3	520			
7 T		7 / 0.37	1.11	0.5	20.5	1.3	560			
8 T	0.75	7 / 0.37	1.11	0.5	22.2	1.4	650			
10 T		7 / 0.37	1.11	0.5	25.2	1.5	810	26.0	95	0.72
12 T		7 / 0.37	1.11	0.5	26.6	1.6	930			
14 T		7 / 0.37	1.11	0.5	27.9	1.6	1,050			
16 T		7 / 0.37	1.11	0.5	29.7	1.7	1,180			
19 T		7 / 0.37	1.11	0.5	32.2	1.8	1,390			
20 T		7 / 0.37	1.11	0.5	32.7	1.8	1,450			
24 T		7 / 0.37	1.11	0.5	35.9	1.9	1,740			
30 T		7 / 0.37	1.11	0.5	39.8	2.1	2,130			
32 T		7 / 0.37	1.11	0.5	41.4	2.2	2,290			
1 T		7 / 0.43	1.29	0.5	9.1	0.9	120			
2 T		7 / 0.43	1.29	0.5	14.6	1.1	260			
3 T		7 / 0.43	1.29	0.5	15.6	1.1	330			
4 T		7 / 0.43	1.29	0.5	17.3	1.2	420			
5 T	1.0	7 / 0.43	1.29	0.5	19.1	1.3	510			
6 T		7 / 0.43	1.29	0.5	21.7	1.4	620			
7 T		7 / 0.43	1.29	0.5	21.7	1.4	670			
8 T		7 / 0.43	1.29	0.5	23.5	1.4	770			
10 T		7 / 0.43	1.29	0.5	26.7	1.6	960	19.2	100	0.69
12 T		7 / 0.43	1.29	0.5	28.4	1.6	1,120			
14 T		7 / 0.43	1.29	0.5	29.6	1.7	1,260			
16 T		7 / 0.43	1.29	0.5	31.7	1.8	1,430			
19 T		7 / 0.43	1.29	0.5	34.3	1.9	1,680			
20 T		7 / 0.43	1.29	0.5	34.9	1.9	1,750			
24 T		7 / 0.43	1.29	0.5	38.1	2.0	2,080			
30 T		7 / 0.43	1.29	0.5	42.5	2.2	2,580			
32 T		7 / 0.43	1.29	0.5	44.2	2.3	2,770			



Technical Data & Installation Information

- » Temperature Correction Factors for Conductor Resistance
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1. Temperature Correction Factors for Conductor Resistance

The values of the correction factor (Kc) and reciprocal of factor (Kr) are given in following table for a normal range of temperatures in accordance with IEC Pub. 60228.

- The values are based on the following formula :

$$Kc = \frac{1}{1 + 0.00393(t-20)} = \frac{254.5}{234.5 + t} \quad Kr = 1/Kc$$

Temperature (°C)	Correction Factor (Kc)	Reciprocal of Factor (Kr)	Temperature (°C)	Correction Factor (Kc)	Reciprocal of Factor (Kr)
5	1.063	0.941	36	0.940	1.063
6	1.058	0.945	37	0.936	1.067
7	1.054	0.949	38	0.933	1.071
8	1.050	0.953	39	0.930	1.075
9	1.045	0.957	40	0.927	1.079
10	1.041	0.961	41	0.923	1.082
11	1.037	0.965	42	0.920	1.086
12	1.033	0.969	43	0.917	1.090
13	1.028	0.972	44	0.914	1.094
14	1.024	0.976	45	0.910	1.098
15	1.020	0.980	46	0.907	1.102
16	1.016	0.984	47	0.904	1.106
17	1.012	0.988	48	0.901	1.110
18	1.008	0.992	49	0.898	1.114
19	1.004	0.996	50	0.894	1.118
20	1.000	1.000	51	0.891	1.122
21	0.996	1.004	52	0.888	1.126
22	0.992	1.008	53	0.885	1.130
23	0.988	1.012	54	0.882	1.134
24	0.985	1.016	55	0.879	1.138
25	0.981	1.020	56	0.876	1.142
26	0.977	1.024	57	0.873	1.146
27	0.973	1.028	58	0.870	1.149
28	0.970	1.031	59	0.867	1.153
29	0.966	1.035	60	0.864	1.157
30	0.962	1.039	65	0.850	1.177
31	0.958	1.043	70	0.836	1.197
32	0.955	1.047	75	0.822	1.216
33	0.951	1.051	80	0.809	1.235
34	0.947	1.055	85	0.797	1.256
35	0.944	1.059	90	0.784	1.275

2. Current Ratings for Continuous Service (IEC 60092-352)

Nominal Cross Section Area mm²	XLPE Insulation (90°C)					
	1C		2C		3C / 4C	
	A		A		A	
0.5	10		8.5		7	
0.75	13		11		9	
1.0 (0.9)	16		14		11	
1.5	23		20		16	
2.5	40		26		21	
4	51		34		28	
6	52		44		36	
10	72		61		50	
16	96		82		67	
25	127		108		89	
35	157		133		110	
50	196		167		137	
70	242		206		169	
95	293		249		205	
120	339		288		237	
150	389		331		272	
185	444		377		311	
240	522		444		365	
300	601		511		421	
	d.c	a.c	d.c	a.c	d.c	a.c
400	690	670	587	570	483	469
500	780	720	663	612	546	504
630	890	780	757	663	623	546

Note

- Maximum permissible service temperature of the conductor is 90°C
- The current ratings given above are based on an ambient air temperature of 45°C
- The current ratings given above are for 6 cables of less bunched or laid together in flat formation. When more than 6 cables are bunched or laid close together, the current ratings given above should be multiplied by correction factor 0.85.
- For cables with more than four core cables, the current ratings are calculated by the following formula.

formula : $I = \frac{I1}{\sqrt[3]{N}}$ Where, I 1 = Current for single core cable
 N = Number of cores

- Correction factors for various ambient air temperature

Maximum conductor temperature °C	Correction factors for ambient air temperature									
	35	40	45	50	55	60	65	70	75	80
90	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

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3. Short Circuit Current Ratings

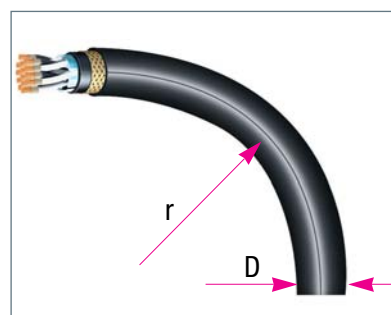
The short circuit currents quoted here are for cables operating normally at maximum conductor temperature of 90°C. XLPE insulation is actually capable of withstanding short-term temperature up to 250°C.

Conductor		Short Circuit Current(kA)														
Nominal Area (mm ²)	Dia. (mm)	Duration of Short Circuit in Second														
		0.03	0.05	0.07	0.1	0.14	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
1.5	1.59	1.26	0.98	0.83	0.69	0.58	0.49	0.40	0.35	0.31	0.28	0.26	0.24	0.23	0.22	
2.5	2.01	2.02	1.56	1.32	1.10	0.93	0.78	0.64	0.55	0.49	0.45	0.42	0.39	0.37	0.35	
4	2.55	3.25	2.52	2.13	1.78	1.50	1.26	1.03	0.89	0.80	0.73	0.67	0.63	0.59	0.56	
6	3.12	4.86	3.77	3.18	2.66	2.25	1.88	1.54	1.33	1.19	1.09	1.01	0.94	0.89	0.84	
10	4.05	8.19	6.34	5.36	4.49	3.79	3.17	2.59	2.24	2.01	1.83	1.70	1.59	1.50	1.42	
16	5.10	12.99	10.06	8.50	7.11	6.01	5.03	4.11	3.56	3.18	2.90	2.69	2.52	2.37	2.25	
25	6.42	20.6	15.9	13.5	11.3	9.5	8.0	6.5	5.6	5.0	4.6	4.3	4.0	3.8	3.6	
35	7.56	28.5	22.1	18.7	15.6	13.2	11.1	9.0	7.8	7.0	6.4	5.9	5.5	5.2	4.9	
50	8.90	38.6	29.9	25.3	21.2	17.9	15.0	12.2	10.6	9.5	8.6	8.0	7.5	7.1	6.7	
70	10.70	55.9	43.3	36.6	30.6	25.9	21.6	17.7	15.3	13.7	12.5	11.6	10.8	10.2	9.7	
95	12.60	77.5	60.0	50.7	42.4	35.9	30.0	24.5	21.2	19.0	17.3	16.0	15.0	14.1	13.4	
120	14.21	97.9	75.8	64.1	53.6	45.3	37.9	31.0	26.8	24.0	21.9	20.3	19.0	17.9	17.0	
150	15.75	120.3	93.1	78.7	65.9	55.7	46.6	38.0	32.9	29.5	26.9	24.9	23.3	22.0	20.8	
185	17.64	150.8	116.8	98.8	82.6	69.8	58.4	47.7	41.3	36.9	33.7	31.2	29.2	27.5	26.1	
240	20.25	198.3	153.6	129.8	108.6	91.8	76.8	62.7	54.3	48.6	44.3	41.0	38.4	36.2	34.3	
300	22.68	248.7	192.6	162.8	136.2	115.1	96.3	78.6	68.1	60.9	55.6	51.5	48.2	45.4	43.1	
400	26.10	329.3	255.1	215.6	180.4	152.5	127.6	104.1	90.2	80.7	73.6	68.2	63.8	60.1	57.0	
500	28.80	401.0	310.6	262.5	219.6	185.6	155.3	126.8	109.8	98.2	89.7	83.0	77.7	73.2	69.5	

4. Minimum Bending Radius (In accordance with IEC 60092-352)

Cable Type	Minimum Bending Radius	
0.6/1kV Power & Control Cable	Un armored D ≤ 25 mm	4D
	Un armored D > 25 mm	6D
	Armored All Type	6D
150/250V Telephone & Instrument Cable	All Type	8D

Note D : overall diameter of cable



5. Calculation of Electrical Data

1) Inductance (for 2, 3 & 4 conductor cables)

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

L = Inductance (H/m)

a = Axial space between conductor (mm)

d = Conductor diameter (mm)

2) Reactance (for 2, 3 & 4 conductor cables)

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

X = Reactance (Ω) f = Frequency (Hz)

L = Inductance (H/m) l = Conductor length (m)

3) Impedance (for 2, 3 & 4 conductor cables)

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

Z = Impedance (Ω)
R = Resistance at operating temp (Ω)
X = Reactance (Ω)

4) Voltage drop

① D.C Voltage drop (2 wire D.C circuits)

$$V \text{ drop} = 2 \times I \times L \times R \text{ [volts]}$$

Where, I = Load current [Amp]

L = Length of cable [km]

R = D.C conductor resistance at Max. rated conductor temperature [Ω/km]

② A.C. voltage drop

- Single-phase voltage drop

$$V \text{ drop} = 2 \times I \times L \times (R \cdot \cos \phi + X \cdot \sin \phi) \text{ [volts]}$$

Where, I = Load current [Amp]

L = Length of cable [km]

R = A.C. conductor resistance at Max. rated conductor temperature [Ω/km]

X = Reactance of the cable [Ω/km]

φ = Power factor angle by which the current lags (or leads) the voltage

- Three-phase voltage drop

$$V \text{ drop} = \sqrt{3} \times I \times L \times (R \cdot \cos \phi + X \cdot \sin \phi) \text{ [volts]}$$

Where, I = Load current [Amp]

L = Length of cable [km]

R = A.C conductor resistance at Max. rated conductor temperature [Ω/km]

X = Reactance of the cable [Ω/km]

φ = Power factor angle by which the current lags (or leads) the voltage

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BV Type Approval

THE SCHEDULE OF APPROVAL

Product	Standard	Max. Voltage	Max. Current	Max. Power	Max. Temperature
1.5KV, 2KV, 3KV, 6KV, 10KV	IEC 60332-1, IEC 60332-2	1.5KV, 2KV, 3KV, 6KV, 10KV	100A, 100A, 100A, 100A, 100A	1500W, 3000W, 4500W, 6000W, 9000W	100°C, 100°C, 100°C, 100°C, 100°C

TYPE APPROVAL CERTIFICATE

JINRO INDUSTRIES CO., LTD.
Cheongju, Gyeongbuk, Republic of Korea

CABLE LOW VOLTAGE
Type: LVLS 1000

ABS Type Approval

Confirmation of Type Approval

Jinro Industries Co., Ltd.
Model Name(s): TYXL, TXSL, OFXL, SOXX

ABS
Type Approval program

DNV Type Approval

DET NORSKE VERITAS
TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. A-1070
Electric Cable, Power Current

SHR 645 LV

JINRO INDUSTRIES CO., LTD.
Cheongju-Si, Chungcheong 310-912, Korea, Republic of

LR Type Approval

Lloyd's Register

Type Approval Certificate

LR