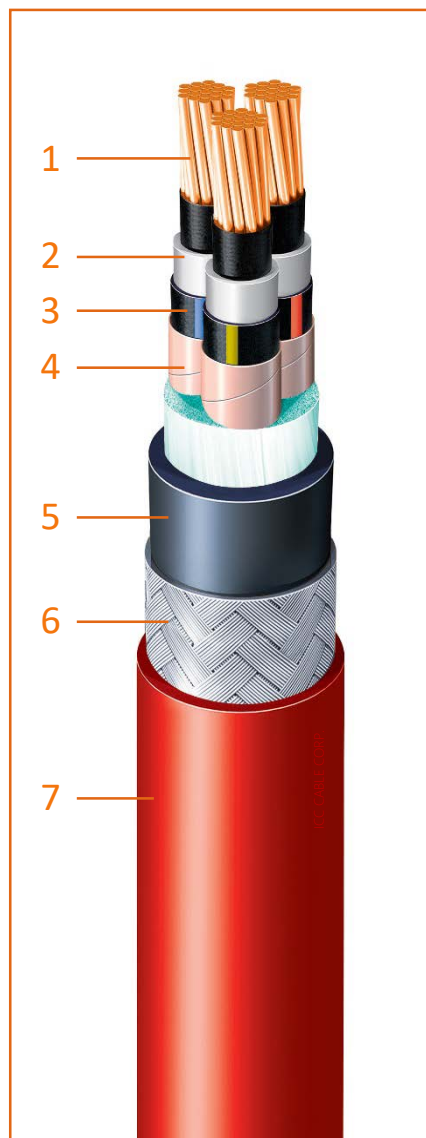


MEDIUM VOLTAGE FLAME RETARDANT ARMORED & SHEATHED CABLE



PRODUCT DESCRIPTION

3.6/6KV, 6/10KV, 8.7/15KV TIOI CABLE
COMMERCIAL MARINE POWER CABLE
90°C TEMPERATURE RATING
LOW SMOKE HALOGEN-FREE, FLAME RETARDANT
ABS, DNV-GL, LLOYD APPROVED

PRODUCT CONSTRUCTION

1. CONDUCTOR

STRANDED BARE ANNEALED COPPER WIRE
TINNED COPPER CONDUCTOR OPTION AVAILABLE

2. CONDUCTOR SCREEN

SEMI-CONDUCTING LAYER (TAPE/COMPOUND)

3. INSULATION

CROSS-LINKED POLYETHYLENE (XLPE)

4. INSULATION SCREEN

SEMI-CONDUCTING LAYER (TAPE/COMPOUND)
COPPER TAPE SHIELDED

5. INNER SHEATH

BLACK POLYOLEFIN SHF1

6. ARMOR

BARE COPPER WIRE BRAID (MIN. 90%)
GALVANIZED STEEL WIRE BRAID OPTION AVAILABLE

7. SHEATH

RED POLYOLEFIN SHF1



STANDARDS

- DESIGN GUIDE: IEC 60092-350/353
- CONDUCTOR: IEC 60228 CLASS 2
- INSULATION: IEC 60092-351 (XLPE)
- SHEATH: IEC 60092-359 (SHF1)
- FLAME RETARDANT: IEC 60332-1/3 CAT.A
- HALOGEN FREE: IEC 60754-1, $\leq 0.5\%$
- LOW SMOKE: IEC 61034, $>60\%$
- COLD BEND/IMPACT:
CSA 22.2 NO. 03 (-40°C/-35°C)
- IEEE 45, IEEE 1580

MEDIUM VOLTAGE FLAME RETARDANT ARMORED & SHEATHED CABLE

3.6/6KV TIOI: SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TIOI1C8AWG(10MM2)-6KV	1	8	0.76	19.20	376	560
TIOI1C6AWG(16MM2)-6KV	1	6	0.79	20.10	437	650
TIOI1C4AWG(25MM2)-6KV	1	4	0.86	21.80	538	800
TIOI1C2AWG(35MM2)-6KV	1	2	0.91	23.00	632	940
TIOI1C1AWG(50MM2)-6KV	1	1	0.97	24.70	753	1120
TIOI1C70MM2-6KV	1	70mm2	1.05	26.70	934	1390
TIOI1C3/0AWG(95MM2)-6KV	1	3/0	1.13	28.80	1156	1720
TIOI1C4/0AWG(120MM2)-6KV	1	4/0	1.21	30.60	1357	2020
TIOI1C150MM2-6KV	1	150mm2	1.28	32.40	1579	2350
TIOI1C185MM2-6KV	1	185mm2	1.35	34.40	1868	2780
TIOI1C240MM2-6KV	1	240mm2	1.51	38.40	2406	3580
TIOI1C300MM2-6KV	1	300mm2	1.64	41.60	2896	4310
TIOI1C400MM2-6KV	1	400mm2	1.80	45.80	3656	5440
TIOI1C500MM2-6KV	1	500mm2	1.94	49.30	4334	6450
TIOI1C630MM2-6KV	1	630mm2	2.13	54.10	5450	8110

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

3.6/6KV TIOI: THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TIOI3C8AWG(10MM2)-6KV	3	8	1.43	36.30	1149	1710
TIOI3C6AWG(16MM2)-6KV	3	6	1.53	38.80	1364	2030
TIOI3C4AWG(25MM2)-6KV	3	4	1.65	42.00	1680	2500
TIOI3C2AWG(35MM2)-6KV	3	2	1.76	44.80	1982	2950
TIOI3C1AWG(50MM2)-6KV	3	1	1.89	48.00	2359	3510
TIOI3C70MM2-6KV	3	70mm2	2.07	52.50	2970	4420
TIOI3C3/0AWG(95MM2)-6KV	3	3/0	2.24	57.00	3676	5470
TIOI3C4/0AWG(120MM2)-6KV	3	4/0	2.40	61.00	4354	6480
TIOI3C150MM2-6KV	3	150mm2	2.56	64.90	5067	7540
TIOI3C185MM2-6KV	3	185mm2	2.73	69.30	6007	8940
TIOI3C240MM2-6KV	3	240mm2	3.01	76.40	7513	11180

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

MEDIUM VOLTAGE FLAME RETARDANT ARMORED & SHEATHED CABLE

6/10KV TIOI: SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TIOI1C6AWG(16MM2)-10KV	1	6	0.88	22.30	504	750
TIOI1C4AWG(25MM2)-10KV	1	4	0.94	23.80	598	890
TIOI1C2AWG(35MM2)-10KV	1	2	0.99	25.20	699	1040
TIOI1C1AWG(50MM2)-10KV	1	1	1.05	26.70	820	1220
TIOI1C70MM2-10KV	1	70mm2	1.12	28.50	995	1480
TIOI1C3/0AWG(95MM2)-10KV	1	3/0	1.21	30.80	1230	1830
TIOI1C4/0AWG(120MM2)-10KV	1	4/0	1.28	32.60	1438	2140
TIOI1C150MM2-10KV	1	150mm2	1.35	34.40	1660	2470
TIOI1C185MM2-10KV	1	185mm2	1.45	36.90	2009	2990
TIOI1C240MM2-10KV	1	240mm2	1.58	40.00	2473	3680
TIOI1C300MM2-10KV	1	300mm2	1.69	42.80	2950	4390
TIOI1C400MM2-10KV	1	400mm2	1.84	46.80	3703	5510
TIOI1C500MM2-10KV	1	500mm2	1.97	49.90	4354	6480
TIOI1C630MM2-10KV	1	630mm2	2.11	53.50	5463	8130

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

6/10KV TIOI: THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TIOI3C6AWG(16MM2)-10KV	3	6	1.70	43.10	1579	2350
TIOI3C4AWG(25MM2)-10KV	3	4	1.82	46.30	1908	2840
TIOI3C2AWG(35MM2)-10KV	3	2	1.93	49.10	2224	3310
TIOI3C1AWG(50MM2)-10KV	3	1	2.07	52.50	2627	3910
TIOI3C70MM2-10KV	3	70mm2	2.24	56.80	3239	4820
TIOI3C3/0AWG(95MM2)-10KV	3	3/0	2.42	61.40	3985	5930
TIOI3C4/0AWG(120MM2)-10KV	3	4/0	2.57	65.30	4663	6940
TIOI3C150MM2-10KV	3	150mm2	2.73	69.30	5409	8050
TIOI3C185MM2-10KV	3	185mm2	2.90	73.60	6357	9460
TIOI3C240MM2-10KV	3	240mm2	3.16	80.20	7849	11680

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

MEDIUM VOLTAGE FLAME RETARDANT ARMORED & SHEATHED CABLE

8.7/15KV TIOI: SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TIOI1C4AWG(25MM2)-15KV	1	4	1.04	26.40	692	1030
TIOI1C2AWG(35MM2)-15KV	1	2	1.09	27.60	793	1180
TIOI1C1AWG(50MM2)-15KV	1	1	1.15	29.30	921	1370
TIOI1C70MM2-15KV	1	70mm2	1.22	31.10	1109	1650
TIOI1C3/0AWG(95MM2)-15KV	1	3/0	1.32	33.40	1351	2010
TIOI1C4/0AWG(120MM2)-15KV	1	4/0	1.41	35.70	1619	2410
TIOI1C150MM2-15KV	1	150mm2	1.48	37.50	1855	2760
TIOI1C185MM2-15KV	1	185mm2	1.56	39.50	2150	3200
TIOI1C240MM2-15KV	1	240mm2	1.68	42.60	2627	3910
TIOI1C300MM2-15KV	1	300mm2	1.78	45.20	3098	4610
TIOI1C400MM2-15KV	1	400mm2	1.93	49.00	3850	5730
TIOI1C500MM2-15KV	1	500mm2	2.06	52.30	4529	6740
TIOI1C630MM2-15KV	1	630mm2	2.24	56.90	5645	8400

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

8.7/15KV TIOI: THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TIOI3C4AWG(25MM2)-15KV	3	4	2.03	51.60	2217	3300
TIOI3C2AWG(35MM2)-15KV	3	2	2.15	54.60	2567	3820
TIOI3C1AWG(50MM2)-15KV	3	1	2.27	57.60	2957	4400
TIOI3C70MM2-15KV	3	70mm2	2.45	62.10	3608	5370
TIOI3C3/0AWG(95MM2)-15KV	3	3/0	2.64	67.00	4401	6550
TIOI3C4/0AWG(120MM2)-15KV	3	4/0	2.79	70.80	5094	7580
TIOI3C150MM2-15KV	3	150mm2	2.93	74.50	5833	8680
TIOI3C185MM2-15KV	3	185mm2	3.12	79.20	6841	10180
TIOI3C240MM2-15KV	3	240mm2	3.37	85.60	8346	12420

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES