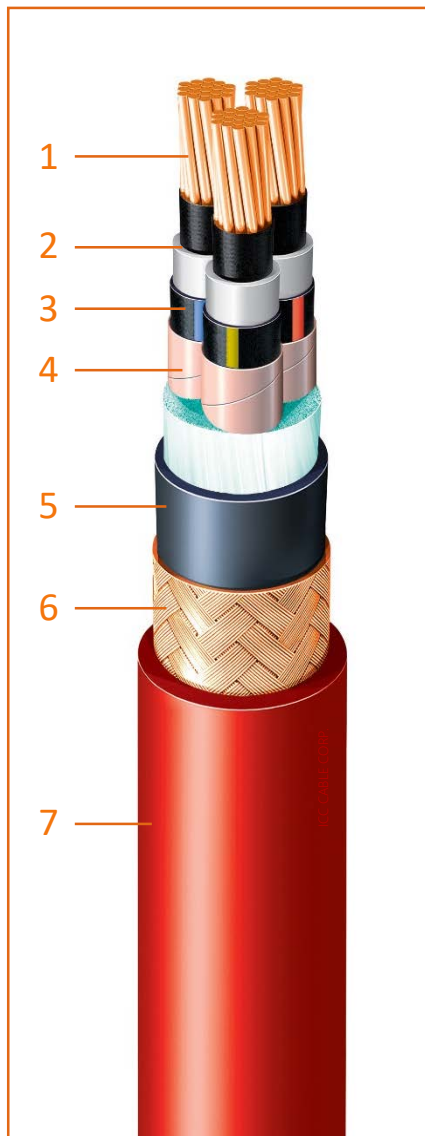


## MEDIUM VOLTAGE FLAME RETARDANT COPPER WIRE BRAID SHIELDED CABLE



### PRODUCT DESCRIPTION

3.6/6KV, 6/10KV, 8.7/15KV TFOI 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 COVERING/BEDDING

HALOGEN FREE COMPOUND

#### 6. SHIELD

BARE COPPER WIRE BRAID (MIN. 90%)

#### 7. SHEATH

RED POLYOLEFIN SHF1

LSZH CABLE



### 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 COPPER WIRE BRAID SHIELDED CABLE

### 3.6/6KV TFOI: SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TFOI1C8AWG(10MM2)-6KV	1	8	0.77	19.60	390	580
TFOI1C6AWG(16MM2)-6KV	1	6	0.81	20.50	450	670
TFOI1C4AWG(25MM2)-6KV	1	4	0.86	21.80	538	800
TFOI1C2AWG(35MM2)-6KV	1	2	0.91	23.20	632	940
TFOI1C1AWG(50MM2)-6KV	1	1	0.97	24.50	739	1100
TFOI1C70MM2-6KV	1	70mm2	1.04	26.50	927	1380
TFOI1C3/0AWG(95MM2)-6KV	1	3/0	1.13	28.60	1142	1700
TFOI1C4/0AWG(120MM2)-6KV	1	4/0	1.20	30.40	1344	2000
TFOI1C150MM2-6KV	1	150mm2	1.26	32.00	1559	2320
TFOI1C185MM2-6KV	1	185mm2	1.35	34.40	1861	2770
TFOI1C240MM2-6KV	1	240mm2	1.50	38.00	2372	3530
TFOI1C300MM2-6KV	1	300mm2	1.62	41.20	2869	4270
TFOI1C400MM2-6KV	1	400mm2	1.80	45.60	3635	5410
TFOI1C500MM2-6KV	1	500mm2	1.93	48.90	4294	6390
TFOI1C630MM2-6KV	1	630mm2	2.11	53.50	5396	8030

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

### 3.6/6KV TFOI: THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TFOI3C8AWG(10MM2)-6KV	3	8	1.39	35.40	1089	1620
TFOI3C6AWG(16MM2)-6KV	3	6	1.51	38.40	1364	2030
TFOI3C4AWG(25MM2)-6KV	3	4	1.63	41.40	1660	2470
TFOI3C2AWG(35MM2)-6KV	3	2	1.74	44.20	1969	2930
TFOI3C1AWG(50MM2)-6KV	3	1	1.87	47.60	2359	3510
TFOI3C70MM2-6KV	3	70mm2	2.04	51.90	2950	4390
TFOI3C3/0AWG(95MM2)-6KV	3	3/0	2.23	56.60	3676	5470
TFOI3C4/0AWG(120MM2)-6KV	3	4/0	2.38	60.40	4334	6450
TFOI3C150MM2-6KV	3	150mm2	2.52	64.10	5033	7490
TFOI3C185MM2-6KV	3	185mm2	2.69	68.30	5947	8850
TFOI3C240MM2-6KV	3	240mm2	2.97	75.40	7445	11080

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

LSZH CABLE

## MEDIUM VOLTAGE FLAME RETARDANT COPPER WIRE BRAID SHILED CABLE

LSZH CABLE

### 6/10KV TFOI: SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TFOI1C6AWG(16MM2)-10KV	1	6	0.89	22.50	504	750
TFOI1C4AWG(25MM2)-10KV	1	4	0.94	23.80	598	890
TFOI1C2AWG(35MM2)-10KV	1	2	0.99	25.20	699	1040
TFOI1C1AWG(50MM2)-10KV	1	1	1.04	26.50	806	1200
TFOI1C70MM2-10KV	1	70mm2	1.12	28.50	995	1480
TFOI1C3/0AWG(95MM2)-10KV	1	3/0	1.21	30.60	1216	1810
TFOI1C4/0AWG(120MM2)-10KV	1	4/0	1.27	32.20	1411	2100
TFOI1C150MM2-10KV	1	150mm2	1.35	34.40	1660	2470
TFOI1C185MM2-10KV	1	185mm2	1.45	36.90	2002	2980
TFOI1C240MM2-10KV	1	240mm2	1.57	39.80	2453	3650
TFOI1C300MM2-10KV	1	300mm2	1.67	42.40	2916	4340
TFOI1C400MM2-10KV	1	400mm2	1.84	46.60	3682	5480
TFOI1C500MM2-10KV	1	500mm2	1.95	49.50	4321	6430
TFOI1C630MM2-10KV	1	630mm2	2.12	53.90	5403	8040

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

### 6/10KV TFOI: THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TFOI3C6AWG(16MM2)-10KV	3	6	1.67	42.50	1566	2330
TFOI3C4AWG(25MM2)-10KV	3	4	1.81	45.90	1908	2840
TFOI3C2AWG(35MM2)-10KV	3	2	1.92	48.70	2224	3310
TFOI3C1AWG(50MM2)-10KV	3	1	2.04	51.90	2614	3890
TFOI3C70MM2-10KV	3	70mm2	2.22	56.40	3239	4820
TFOI3C3/0AWG(95MM2)-10KV	3	3/0	2.39	60.80	3965	5900
TFOI3C4/0AWG(120MM2)-10KV	3	4/0	2.54	64.50	4623	6880
TFOI3C150MM2-10KV	3	150mm2	2.69	68.30	5349	7960
TFOI3C185MM2-10KV	3	185mm2	2.87	72.80	6310	9390
TFOI3C240MM2-10KV	3	240mm2	3.12	79.20	7775	11570

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

## MEDIUM VOLTAGE FLAME RETARDANT COPPER WIRE BRAID SHIELDED CABLE

### 8.7/15KV TFOI: SINGLE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TFOI1C4AWG(25MM2)-15KV	1	4	1.03	26.20	685	1020
TFOI1C2AWG(35MM2)-15KV	1	2	1.09	27.60	786	1170
TFOI1C1AWG(50MM2)-15KV	1	1	1.14	28.90	900	1340
TFOI1C70MM2-15KV	1	70mm2	1.22	30.90	1095	1630
TFOI1C3/0AWG(95MM2)-15KV	1	3/0	1.32	33.40	1344	2000
TFOI1C4/0AWG(120MM2)-15KV	1	4/0	1.38	35.00	1546	2300
TFOI1C150MM2-15KV	1	150mm2	1.47	37.30	1834	2730
TFOI1C185MM2-15KV	1	185mm2	1.55	39.30	2137	3180
TFOI1C240MM2-15KV	1	240mm2	1.66	42.20	2594	3860
TFOI1C300MM2-15KV	1	300mm2	1.78	45.20	3091	4600
TFOI1C400MM2-15KV	1	400mm2	1.92	48.80	3823	5690
TFOI1C500MM2-15KV	1	500mm2	2.04	51.90	4489	6680
TFOI1C630MM2-15KV	1	630mm2	2.23	56.70	5618	8360

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

### 8.7/15KV TFOI: THREE CONDUCTOR

PART NO.	CONDUCTOR		NOMINAL OD		WEIGHT	
	# OF CORES	SIZE (AWG/MM2)	INCHES	MM	LTS/MFT	KG/KM
TFOI3C4AWG(25MM2)-15KV	3	4	2.01	51.00	2204	3280
TFOI3C2AWG(35MM2)-15KV	3	2	2.12	53.80	2533	3770
TFOI3C1AWG(50MM2)-15KV	3	1	2.26	57.40	2977	4430
TFOI3C70MM2-15KV	3	70mm2	2.42	61.50	3588	5340
TFOI3C3/0AWG(95MM2)-15KV	3	3/0	2.60	66.00	4341	6460
TFOI3C4/0AWG(120MM2)-15KV	3	4/0	2.74	69.60	5013	7460
TFOI3C150MM2-15KV	3	150mm2	2.91	73.90	5806	8640
TFOI3C185MM2-15KV	3	185mm2	3.07	78.00	6747	10040
TFOI3C240MM2-15KV	3	240mm2	3.32	84.40	8245	12270

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES