shipboard & offshore power cable

MPRX & MPRXCX 0.6/1 KV

MPRX & MPRXCX 0.6/1 kV IEC 60092-353 Class 5 Flexible Copper-Braided S

IEC 60092-353 · 0.6/1 kV · Shipboard & offshore power cable



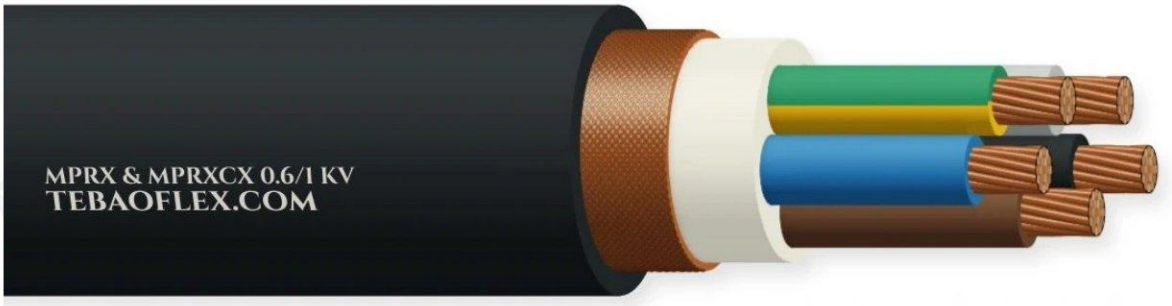
IEC 60092-353 | **0.6/1 kV (-40 to +90 °C)** | **SHF1 Low-Smoke Zero-Halogen Jacket**

Application

MPRX & MPRXCX 0.6/1 (1.2) kV (Flexible Marine) XLPE-Insulated Bare-Copper-Braid Armoured & Unarmoured SHF1 Shipboard Power & Control Cable (IEC 60092-353, 0.6/1 kV, -40 to +90 °C, min. bend radius 6 × OD).

Typical uses: Commercial Vessels & Cruise Ships, Offshore Oil & Gas Platforms (FPSO), Jack-Up & Semi-Submersible Drilling Rigs, Naval Surface Vessels & Submarines

Construction





Cross-section, not to scale

1. Class 5 Flexible Copper (5G10 mm²)
2. 90 °C XLPE Insulation
3. Halogen-Free Inner Bedding
4. Bare Copper Wire Braid (MPRXCX)
5. SHF1 Low-Smoke Zero-Halogen Jacket

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1)
Primary dielectric / buffering	90 °C XLPE Insulation — Cross-linked polyethylene coded Blue, Brown, Black, Grey, Green/Yellow
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1
Outer protection / armouring	SHF1 Low-Smoke Zero-Halogen Jacket — Black halogen-free polyolefin outer sheath certified to IEC 60332-3-22
Armour, screen & mechanical duty	Bare Copper Wire Braid (MPRXCX) — High-coverage annealed bare copper wire braid armour and EMC screen
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1
Standards	IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1
Core / conductor construction	Class 5 Flexible Copper (5G10 mm²) — Finely stranded annealed copper conductors (Flexible Marine design)
Continuous operating temperature	−40…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	6 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
MPRX & MPRXCX 0.6/1 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **MPRX & MPRXCX 0.6/1 KV 3×16+1G16 mm²**	**3 × 16 + 1G16 mm² (4G16)**	**IEC 60228 Class 2/5 Cu/SnCu**	**22.4**	**920**	**3.8**	**135**
☐ **MPRX & MPRXCX 0.6/1 KV 3×35+1G16 mm²**	**3 × 35 + 1G16 mm² (4G35)**	**IEC 60228 Class 2/5 Cu/SnCu**	**28.8**	**1,690**	**7.4**	**175**
☐ **MPRX & MPRXCX 0.6/1 KV 3×70+1G35 mm²**	**3 × 70 + 1G35 mm² (4G70)**	**IEC 60228 Class 2/5 Cu/SnCu**	**38.2**	**3,260**	**14.8**	**230**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 16 + 1G16 mm² (4G16)	**1.15**	**0.6/1 kV (98 A)**	**−40…+90 °C**
3 × 35 + 1G16 mm² (4G35)	**0.52**	**0.6/1 kV (158 A)**	**−40…+90 °C**
3 × 70 + 1G35 mm² (4G70)	**0.27**	**0.6/1 kV (245 A)**	**−40…+90 °C**

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- IEC 60092-353 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/mprx-mprxcx-0-6-1-kv

Typical values for this cable type, based on IEC 60092-353 / IEC 60228 Class 5 / IEC 60092-360 SHF1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.