submarine & offshore power composite cable

MPRX / MPRXCX 0.6/1kV

MPRX / MPRXCX 0.6/1 kV IEC 60092-353 XLPE / SHF1-SHF2 Halogen-Free Shi



IEC 60092-353 MPRX / MPRXCX · 0.6/1 kV · Submarine & offshore power composite cable

IEC 60092-353 MPRX / MPRXCX | 0.6/1 kV (-40 to +90 °C) | SHF1 / SHF2 Zero-Halogen Outer Sheat

Application

MPRX / MPRXCX 0.6/1 kV IEC 60092-353 XLPE / SHF1-SHF2 Halogen-Free Shipboard Power & Control Cable (IEC 60092-353 MPRX / MPRXCX) engineered for 0.6/1 kV service across -40 to +90 °C (min. bend radius 6 × OD).

Typical uses: Offshore Wind Inter-Array & Export Submarine Links, Subsea Island & Platform HV/MV Power Interconnects, Offshore Oil & Gas Drilling Rigs & FPSOs, Commercial Vessels, Polar Ships & Marine Propulsion

Construction





Cross-section, not to scale

1. Stranded Bare / Tinned Copper (1-37 Core
2. 90°C XLPE/ HEPR Core Insulation
3. Copper Wire Braid Screen & Armour (MPRXC
4. SHF1 / SHF2 Zero-Halogen Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification)
Primary dielectric / buffering	90°C XLPE/ HEPR Core Insulation — Halogen-free cross-linked polyethylene or HEPR insulation
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification
Outer protection / armouring	SHF1 / SHF2 Zero-Halogen Outer Sheath — Flame-retardant low-smoke zero-halogen shipboard jacket
Armour, strength member & mechanical duty	Copper Wire Braid Screen & Armour (MPRXCX) — High-coverage copper wire braid over halogen-free inner bedding
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification
Standards	IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification
Core / conductor construction	Stranded Bare / Tinned Copper (1-37 Cores) — IEC 60228 Class 2 / Class 5 annealed copper conductors
Continuous operating temperature	−40...+90 °C (subsea & offshore duty)
Storage & transport temperature	−40...+80 °C on export wooden/steel winch reel
Minimum bending radius	6 × OD
Seawater, hydrostatic & hydrolysis resistance	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification
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	Breaking / tensile kN ≈	Min. bend R mm
MPRX / MPRXCX 0.6/1kV Construction Schedule (−40...+90 °C) 3 sizes						
☐ MPRX 3×16+1G16 mm²	3 × 16 + 1G16 mm² (or 1C×50 mm²)	IEC 60228 Class 2/5 Cu/SnCu	22.4	920	18.5	135
☐ MPRX 3×35+1G16 mm²	3 × 35 + 1G16 mm² (or 1C×150 mm²)	IEC 60228 Class 2/5 Cu/SnCu	28.8	1,690	32.0	175
☐ MPRX 3×95+1G50 mm²	3 × 95 + 1G50 mm² (or 1C×300 mm²)	IEC 60228 Class 2/5 Cu/SnCu	41.2	3,680	58.0	250

– Custom core cross-sections, pair/fibre counts, armour breaking loads and continuous winch/seabed lengths available per IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification.

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 (or 1C×50 mm²)	1.15	0.6/1 kV (98 A)	−40...+90 °C
3 × 35 + 1G16 mm² (or 1C×150 mm²)	0.52	0.6/1 kV (158 A)	−40...+90 °C
3 × 95 + 1G50 mm² (or 1C×300 mm²)	0.19	0.6/1 kV (285 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 MPRX / MPRXCX 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-0-6-1kv-shipboard-power-cable

Typical values for this cable type, based on IEC 60092-353 & IEC 60332-3-22 Cat. A MPRX / MPRXCX 0.6/1 kV Halogen-Free Shipboard Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.