shipboard & offshore power cable

MPRXCX & MEPRXCX 1.8/3-12/20 KV

MPRXCX & MEPRXCX 1.8/3–12/20 kV IEC 60092-354 Flexible Shipboard MV Pr



IEC 60092-354 · 1.8/3 kV – 12/20 kV · Shipboard & offshore power cable

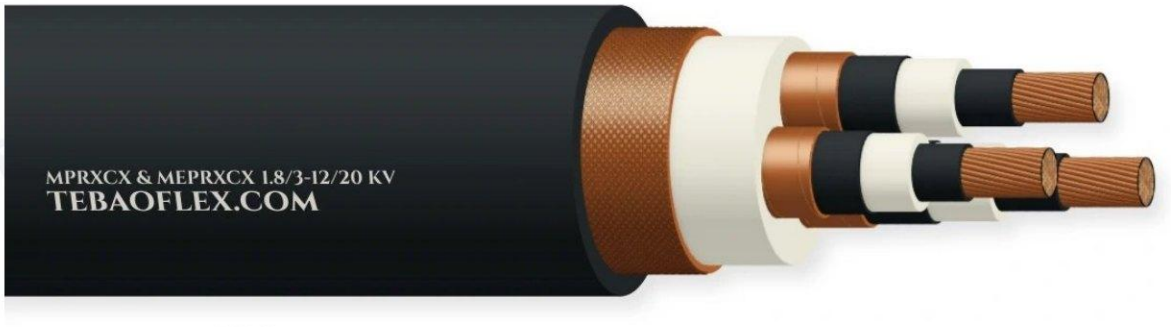
IEC 60092-354 | **1.8/3 kV – 12/20 kV (-40 to +90 °C)** | **SHF1 / SHF2 Propulsion Outer Jacket**

Application

MPRXCX & MEPRXCX 1.8/3–12/20 kV IEC 60092-354 Flexible Shipboard MV Propulsion Cable (IEC 60092-354) engineered for 1.8/3 kV – 12/20 kV service across -40 to +90 °C (min. bend radius 10 × 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 (3×120 mm²)
2. Triple-Extruded XLPE / HEPR Insulation
3. Individual Copper Tape Metallic Screen
4. Copper Wire Braid Armour (CX)
5. SHF1 / SHF2 Propulsion Outer Jacket

Technical data

Typical values

Rated voltage / transmission duty	1.8/3 kV – 12/20 kV (IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2)
Primary dielectric / buffering	Triple-Extruded XLPE / HEPR Insulation — Conductor screen + MV XLPE (MPRXCX) / HEPR (MEPRXCX) + insulation screen
Short-circuit / peak thermal rating	Verified thermal stability per IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2
Outer protection / armouring	SHF1 / SHF2 Propulsion Outer Jacket — Halogen-free flame-retardant jacket certified by DNV, BV, LR, ABS
Armour, screen & mechanical duty	Copper Wire Braid Armour (CX) — High-coverage bare or tinned copper wire braid over halogen-free bedding
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2
Standards	IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2
Core / conductor construction	Class 5 Flexible Copper (3×120 mm²) — Flexible Marine finely stranded annealed copper for tight bends
Continuous operating temperature	−40…+90 °C (shipboard & offshore duty)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	10 × OD
Flame, fire & smoke performance	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2
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
MPRXCX & MEPRXCX 1.8/3-12/20 KV Construction Schedule (−40…+90 °C) 3 sizes						
☐ **MPRXCX 3×50 mm² MV**	**3 × 50 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**42.5**	**2,980**	**22.5**	**510**
☐ **MPRXCX 3×95 mm² MV**	**3 × 95 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**51.8**	**4,690**	**42.8**	**620**
☐ **MPRXCX 3×150 mm² MV**	**3 × 150 mm²**	**IEC 60228 Class 2/5 Cu/SnCu**	**61.2**	**6,840**	**67.5**	**735**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 50 mm²	**0.39**	**1.8/3 kV – 12/20 kV (195 A)**	**−40…+90 °C**
3 × 95 mm²	**0.19**	**1.8/3 kV – 12/20 kV (285 A)**	**−40…+90 °C**
3 × 150 mm²	**0.12**	**1.8/3 kV – 12/20 kV (365 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 60092-354 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/mprxcx-meprxcx-1-8-3-12-20-kv

Typical values for this cable type, based on IEC 60092-354 / IEC 60228 Class 5 / IEC 60092-360 SHF1 & SHF2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.