submarine & offshore power composite cable

BS 6883 6571TQ SW4

BS 6883 Type 6571TQ SW4 0.6/1 kV Single-Core EPR/LSZH Halogen-Free Off

BS 6883 Type SW4 · 0.6/1 kV · Submarine & offshore power composite cable



BS 6883 Type SW4 | 0.6/1 kV (-40 to +90 °C) | HOFR Type SW4 LSZH Outer Sheath (-40

Application

BS 6883 Type 6571TQ SW4 0.6/1 kV Single-Core EPR/LSZH Halogen-Free Offshore & Marine Power Cable (BS 6883 Type SW4) 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. Class 2 Tinned Copper Conductor (2.5–400
2. Halogen-Free EPR Elastomeric Insulation
3. HOFR Type SW4 LSZH Outer Sheath (-40°C/+

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core Specification)	**Core / conductor construction**	Class 2 Tinned Copper Conductor (2.5–400 mm²) — Stranded tinned annealed copper single-core conductor
Primary dielectric / buffering	Halogen-Free EPR Elastomeric Insulation — BS 7655 GP4 90 °C ethylene-propylene rubber dielectric	**Continuous operating temperature**	−40…+90 °C (subsea & offshore duty)
Hydrostatic & thermal stability	Verified thermal and hydrostatic stability per BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core Specification	**Storage & transport temperature**	−40…+80 °C on export wooden/steel winch reel
Outer protection / armouring	HOFR Type SW4 LSZH Outer Sheath (-40°C/+90°C) — Heat-, oil- and flame-retardant low-smoke zero-halogen jacket	**Minimum bending radius**	6 × OD
Armour, strength member & mechanical duty	Halogen-Free EPR Elastomeric Insulation — BS 7655 GP4 90 °C ethylene-propylene rubber dielectric	**Seawater, hydrostatic & hydrolysis resistance**	Engineered for continuous seawater immersion, pressure cycling and hydrolysis resistance per BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core Specification
Oil, drilling mud & abrasion resistance	Resistant to marine hydraulic oils, salt mist, winch sheave wear and seabed abrasion per BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core Specification	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core Specification		

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
BS 6883 6571TQ SW4 Construction Schedule (−40…+90 °C) 3 sizes						
☐ **BS 6883 6571TQ SW4 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**
☐ **BS 6883 6571TQ SW4 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**
☐ **BS 6883 6571TQ SW4 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 BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core 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

- BS 6883 Type SW4 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/bs-6883-6571tq-sw4-0-6-1kv-marine-cable

Typical values for this cable type, based on BS 6883:1999 Type 6571TQ GP4 EPR / Type SW4 LSZH 0.6/1 kV Offshore Single-Core Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.