shipboard & offshore power cable

658TQ / 658B & 6571TQ / 6591TQ 0.6/1 KV (BS 6883)

658TQ / 658B & 6571TQ / 6591TQ 0.6/1 kV BS 6883 Offshore Switchgear &



BS 6883 · 0.6/1 kV · Shipboard & offshore power cable

BS 6883 | 0.6/1 kV (-40 to +90 °C) | Type SW4 (TQ) / Type SW2 (B) Outer S

Application

658TQ / 658B & 6571TQ / 6591TQ 0.6/1 kV (BS 6883 Type SW4 / SW2) EPR-Insulated GSWB/TPBWB-Armoured & Unarmoured Offshore Rig, Switchgear & Bonding Cable Series (BS 6883, 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 Tinned Copper (1×185 mm
2. BS 7655 GP4 EPR Insulation
3. Phosphor Bronze Non-Magnetic Braid (6571
4. Type SW4 (TQ) / Type SW2 (B) Outer Sheat

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (BS 6883 / BS 7655 GP4 / Type SW4 & SW2)	**Core / conductor construction**	Class 5 Flexible Tinned Copper (1×185 mm²) — BS EN 60228 Class 5 flexible tinned copper conductor (up to 630 mm²)
Primary dielectric / buffering	BS 7655 GP4 EPR Insulation — 90 °C ethylene-propylene rubber dielectric (0.6/1 kV to 1.8/3 kV)	**Continuous operating temperature**	−40…+90 °C (shipboard & offshore duty)
Short-circuit / peak thermal rating	Verified thermal stability per BS 6883 / BS 7655 GP4 / Type SW4 & SW2	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Type SW4 (TQ) / Type SW2 (B) Outer Sheath — Heavy-duty halogen-free oil-resistant SW4 (658TQ) or PCP SW2 (658B) jacket	**Minimum bending radius**	6 × OD
Armour, screen & mechanical duty	Phosphor Bronze Non-Magnetic Braid (6571TQ) — Non-magnetic phosphor bronze wire braid preventing eddy-current heating	**Flame, fire & smoke performance**	Qualified for marine flame-retardance and low-smoke zero-halogen / fire safety per BS 6883 / BS 7655 GP4 / Type SW4 & SW2
Oil, drilling mud & seawater resistance	Resistant to marine fuel/lube oils, salt mist and offshore fluids per BS 6883 / BS 7655 GP4 / Type SW4 & SW2	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	BS 6883 / BS 7655 GP4 / Type SW4 & SW2		

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
658TQ / 658B & 6571TQ / 6591TQ 0.6/1 KV (BS 6883) Construction Schedule (−40…+90 °C) 3 sizes						
☐ 658TQ 3×16+1G16 mm²	3 × 16 + 1G16 mm² (4G16)	IEC 60228 Class 2/5 Cu/SnCu	22.4	920	3.8	135
☐ 658TQ 3×35+1G16 mm²	3 × 35 + 1G16 mm² (4G35)	IEC 60228 Class 2/5 Cu/SnCu	28.8	1,690	7.4	175
☐ 658TQ 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 BS 6883 / BS 7655 GP4 / Type SW4 & SW2.

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

- BS 6883 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/658tq-658b-6571tq-6591tq-0-6-1-kv-bs-6883

Typical values for this cable type, based on BS 6883 / BS 7655 GP4 / Type SW4 & SW2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.