Overall-screened subsea interconnection cable

P8C16#OS

600 V 8×16 AWG Screened Subsea Cable

ISO 13628-5 / IEC 60092-350 · 600 V · −40…+80 °C screened PUR underwater whip cable



600 V Subsea | 8×16 AWG + OS | Mouldable PUR

Application

P8C16#OS 600 V overall-screened subsea interconnection cable combining 8 × 16 AWG (1.34 mm²) flexible tinned copper conductors, color-coded PP insulation, fibrillated PP fillers, ≥85% tinned copper braid shield (OS) and a black subsea PUR jacket.

Typical uses: Subsea Wet-Mateable Connector Whips & Harnesses, ROV Cameras, Sonar Heads, Pan/Tilt & Thruster Jumpers, Oceanographic CTD, ADCP & Seabed Lander Telemetry, Offshore Subsea Control Modules (SCM) & Valve Packs

Construction





Cross-section, not to scale

1	Conductors (8x16 AWG / 1.34 mm²)	ISO 13628-5 / IEC 60092-350
2	Primary Core Insulation	ISO 13628-5 / IEC 60092-350
3	Bedding & Separator Tape	ISO 13628-5 / IEC 60092-350
4	Overall Braided Shield (OS)	ISO 13628-5 / IEC 60092-350
5	Subsea Outer Jacket	ISO 13628-5 / IEC 60092-350

Technical data

Typical values

Rated voltage / transmission duty	600 V AC/DC (ISO 13628-5 / IEC 60092-350)	**Core / conductor construction**	Conductors (8x16 AWG / 1.34 mm²) — Eight 16 AWG (1.34 mm²) flexible stranded electrolytic tinned copper conductors for subsea connector whips and ROV sensors
Primary dielectric / insulation	Primary Core Insulation — High-insulation-resistance color-coded polypropylene (PP) core insulation (Black, White, Red, Green, Orange, Blue, Yellow, Brown)	**Continuous operating temperature**	−40…+80 °C (rated operating envelope)
Storage & transport temperature	−40…+80 °C on export drum or reel	**Outer protection / sheath**	Subsea Outer Jacket — Heavy-duty black polyether polyurethane (PUR) outer jacket formulated for continuous deep-water immersion and wet-mate overmolding
Minimum bending radius	6–10 × OD	**Structural layer count**	5 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per ISO 13628-5 / IEC 60092-350	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ISO 13628-5 / IEC 60092-350		

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	Weight ≈ kg/km	Tensile load kN ≈	Min. bend R mm
P8C16#OS Construction Schedule (−40…+80 °C) 3 sizes						
☐ **P4C16#OS (4×16 AWG Screened Subsea)**	**4 × 16 AWG (1.34 mm²)**	**26/30 AWG tinned Cu + OS braid**	**9.6**	**135**	**1.1**	**60**
☐ **P8C16#OS (8×16 AWG Screened Subsea)**	**8 × 16 AWG (1.34 mm²)**	**26/30 AWG tinned Cu + OS braid**	**12.7**	**235**	**2.1**	**80**
☐ **P12C16#OS (12×16 AWG Screened Subsea)**	**12 × 16 AWG (1.34 mm²)**	**26/30 AWG tinned Cu + OS braid**	**14.9**	**330**	**3.0**	**90**

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per ISO 13628-5 / IEC 60092-350.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
4 × 16 AWG (1.34 mm²)	**14.60**	**600 V / 13 A per core**	**−40…+80 °C**
8 × 16 AWG (1.34 mm²)	**14.60**	**600 V / 10 A per core**	**−40…+80 °C**
12 × 16 AWG (1.34 mm²)	**14.60**	**600 V / 8.5 A per core**	**−40…+80 °C**

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

Standards and approvals

- ISO 13628-5 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/p8c16-os-600v-8x16awg-overall-screened-subsea-interconnection-cable

Typical values for this cable type, based on ISO 13628-5 / IEC 60092-350. Values for your order are confirmed in the quotation. Subject to change without notice.
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