Flexible cords & appliance cables

6181XY 0.6/1kV BS 7889 Double-Insulated

XLPE/PVC Tails

BS 7889 / IEC 60502-1 · 0.6/1 kV · -25°C to +90°C · Min. bend 6 × OD

BS 7889 / IEC 60502-1 | 0.6/1 kV



Application

6181XY 0.6/1kV BS 7889 Double-Insulated XLPE/PVC Tails manufactured to BS 7889 / IEC 60502-1, rated 0.6/1 kV and -25°C to +90°C with a 6 × OD minimum bending radius for industrial automation & manufacturing installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	Conductor	1×95 mm² Class 2 Stranded Annealed Cu (19/2.52 mm)
2	Insulation & Core Identification	BS 7889 GP8 XLPE brown core insulation (95 mm² Class 2 Stranded Cu)
3	Screen / Bedding / Armour Layer	Double-insulated concentric interface between 1.1 mm GP8 XLPE insulation and 1.5 mm Type 9 PVC sheath (BS 7889)
4	Outer Protective Sheath	Black Type 9 PVC outer protective sheath (OD 17.9 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	1×95 mm² Class 2 Stranded Annealed Cu (19/2.52 mm) · BS 7889 GP8 XLPE brown core insulation (95 mm² Class 2 Stranded Cu)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	BS 7889 / IEC 60502-1
Minimum bending radius	6 × OD	Screening / armour architecture	Double-insulated concentric interface between 1.1 mm GP8 XLPE insulation and 1.5 mm Type 9 PVC sheath (BS 7889)
Outer sheath material & colour	Black Type 9 PVC outer protective sheath (OD 17.9 mm)	Standards	BS 7889 / IEC 60502-1

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
6181XY 0.6/1kV BS 7889 Double-Insulated 3 sizes										
☐ 6181XY 0.6/1kV BS 7889 Double-Insulated (1×95 mm²)	1×95 mm²	Class 2 Stranded Plain Copper	BS 7889 GP8 XLPE brown core insulation	Industrial PVC	17.9	107	0.19	391.6	753	244 A
☐ 6181XY 0.6/1kV BS 7889 Double-Insulated (1×120 mm²)	1×120 mm²	Class 2 Stranded Plain Copper	BS 7889 GP8 XLPE brown core insulation	Industrial PVC	21.1	127	0.15	545.0	1,048	282 A
☐ 6181XY 0.6/1kV BS 7889 Double-Insulated (1×150 mm²)	1×150 mm²	Class 2 Stranded Plain Copper	BS 7889 GP8 XLPE brown core insulation	Industrial PVC	24.7	148	0.12	745.7	1,434	324 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ BS 7889 / IEC 60502-1 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, 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/6181xy-0-6-1kv-bs-7889-double-insulated-xlpe-pvc-tails

Typical values for this cable type, based on Reference specification per BS 7889 / IEC 60502-1 (6181XY 0.6/1kV BS 7889 Double-Insulated). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.