Flexible cords & appliance cables

Twinflex 450/750V Red/Black TPE & Transparent

PVC Flat Battery Cable

BS EN 60228 Class 6 · 450/750 V · -30°C to +70°C · Min. bend 6 × OD



BS EN 60228 Class 6 **450/750 V**

Application

Twinflex 450/750V Red/Black TPE & Transparent PVC Flat Battery Cable manufactured to BS EN 60228 Class 6, rated 450/750 V and -30°C to +70°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**	2×16 mm² Class 6 Extra-Flexible Bare Cu
2	**Insulation & Core Identification**	Red (+) and Black (-) flexible TPE core insulation (16 mm² Class 6 Cu)
3	**Screen / Bedding / Armour Layer**	Parallel twin figure-8 flat core alignment bridge between Red (+) and Black (-) TPE cores
4	**Outer Protective Sheath**	Transparent flat webbed flexible PVC outer sheath (10.0 × 21.5 mm)

Technical data

Typical values

Nominal / reference voltage	450/750 V	Conductor & core insulation	2×16 mm² Class 6 Extra-Flexible Bare Cu · Red (+) and Black (-) flexible TPE core insulation (16 mm² Class 6 Cu)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-30°C to +70°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	BS EN 60228 Class 6
Minimum bending radius	6 × OD	Screening / armour architecture	Parallel twin figure-8 flat core alignment bridge between Red (+) and Black (-) TPE cores
Outer sheath material & colour	Transparent flat webbed flexible PVC outer sheath (10.0 × 21.5 mm)	Standards	BS EN 60228 Class 6

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
Twinflex 450/750V Red/Black TPE & Transparent 3 sizes										
☐ Twinflex 450/750V Red/Black TPE & Transparent (2×16 mm²)	2×16 mm²	Class 6 Extra-Flexible Bare Copper	Red and Black flexible TPE core insulation	Industrial PVC	16.5	99	1.13	332.8	640	80 A
☐ Twinflex 450/750V Red/Black TPE & Transparent (2×25 mm²)	2×25 mm²	Class 6 Extra-Flexible Bare Copper	Red and Black flexible TPE core insulation	Industrial PVC	19.5	117	0.72	463.3	891	106 A
☐ Twinflex 450/750V Red/Black TPE & Transparent (2×35 mm²)	2×35 mm²	Class 6 Extra-Flexible Bare Copper	Red and Black flexible TPE core insulation	Industrial PVC	22.8	137	0.52	633.4	1,218	131 A

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

Standards and approvals

- ✓ BS EN 60228 Class 6 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/twinflex-450-750v-red-black-tpe-transparent-pvc-flat-battery-cable

Typical values for this cable type, based on Reference specification per BS EN 60228 Class 6 (Twinflex 450/750V Red/Black TPE & Transparent). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.