Fire-resistant & circuit-integrity cables

BS 6387 CWZ 450/750V Single-Core

Fire-Resistant Conduit Wire



BS 6387 Cat CWZ / EN 50200 PH120 · 450/750 V · -25°C to +90°C · Min. bend 10 × OD

BS 6387 Cat CWZ / EN 50200 PH120 | 450/750 V

Application

BS 6387 CWZ 450/750V Single-Core Fire-Resistant Conduit Wire manufactured to BS 6387 Cat CWZ / EN 50200 PH120, rated 450/750 V and -25°C to +90°C with a 10 × OD minimum bending radius for oil, gas & petrochemical 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	1×4.0 mm² Class 2 Stranded Annealed Cu
2	Insulation & Core Identification	Phlogopite mica glass fire-barrier tape (BS 6387 CWZ 950°C circuit integrity)
3	Screen / Bedding / Armour Layer	950°C CWZ circuit-integrity thermal barrier over phlogopite mica glass tape (BS 6387 CWZ / PH120)
4	Outer Protective Sheath	Red special thermosetting Low Smoke Zero Halogen (LSZH) outer insulation (OD 4.91 mm)

Technical data

Typical values

Nominal / reference voltage	450/750 V	Conductor & core insulation	1×4.0 mm² Class 2 Stranded Annealed Cu · Phlogopite mica glass fire-barrier tape (BS 6387 CWZ 950°C circuit integrity)
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 6387 Cat CWZ / EN 50200 PH120
Minimum bending radius	10 × OD	Screening / armour architecture	950°C CWZ circuit-integrity thermal barrier over phlogopite mica glass tape (BS 6387 CWZ / PH120)
Outer sheath material & colour	Red special thermosetting Low Smoke Zero Halogen (LSZH) outer insulation (OD 4.91 mm)	Standards	BS 6387 Cat CWZ / EN 50200 PH120

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
BS 6387 CWZ 450/750V Single-Core 3 sizes										
☐ BS 6387 CWZ 450/750V Single-Core (1×4 mm²)	1×4 mm²	Class 2 Stranded Plain Copper	Phlogopite mica glass fire-barrier tape	LSZH Jacket	4.9	49	4.53	29.6	57	34 A
☐ BS 6387 CWZ 450/750V Single-Core (1×6 mm²)	1×6 mm²	Class 2 Stranded Plain Copper	Phlogopite mica glass fire-barrier tape	LSZH Jacket	5.8	58	3.02	41.1	79	43 A
☐ BS 6387 CWZ 450/750V Single-Core (1×10 mm²)	1×10 mm²	Class 2 Stranded Plain Copper	Phlogopite mica glass fire-barrier tape	LSZH Jacket	6.8	68	1.81	56.2	108	60 A

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

Standards and approvals

- ✓ BS 6387 Cat CWZ / EN 50200 PH120 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/bs-6387-cwz-450-750v-single-core-fire-resistant-conduit-wire

Typical values for this cable type, based on Reference specification per BS 6387 Cat CWZ / EN 50200 PH120 (BS 6387 CWZ 450/750V Single-Core). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.