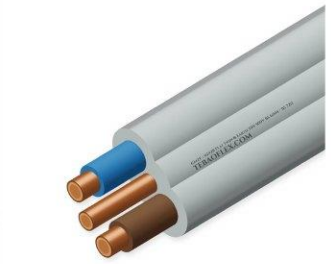
Power & distribution cables

6242Y / 6242B Flat Twin & Earth 300/500V BS 6004 / BS 7211



BS 6004 / BS 7211 · 300/500 V · -15°C to +70°C · Min. bend 12 × OD

BS 6004 / BS 7211 | 300/500 V

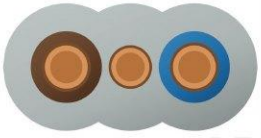
Application

6242Y / 6242B Flat Twin & Earth 300/500V BS 6004 / BS 7211 manufactured to BS 6004 / BS 7211, rated 300/500 V and -15°C to +70°C with a 12 × OD minimum bending radius for infrastructure & construction 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	2×2.5 mm² Class 1 Solid Cu (Brown, Blue) + 1×1.5 mm² Bare Copper CPC (Center)
2	Insulation & Core Identification	BS 6004 / BS 7211 Brown & Blue core insulation + central bare copper CPC
3	Screen / Bedding / Armour Layer	Central uninsulated 1×1.5 mm² Class 1 solid bare copper Circuit Protective Conductor (CPC) in flat parallel lay-up
4	Outer Protective Sheath	Flat Grey PVC / White LSZH outer sheath (5.4 × 10.5 mm)

Technical data

Typical values

Nominal / reference voltage	300/500 V	Conductor & core insulation	2×2.5 mm² Class 1 Solid Cu (Brown, Blue) + 1×1.5 mm² Bare Copper CPC (Center) · BS 6004 / BS 7211 Brown & Blue core insulation + central bare copper CPC
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-15°C to +70°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	BS 6004 / BS 7211
Minimum bending radius	12 × OD	Screening / armour architecture	Central uninsulated 1×1.5 mm² Class 1 solid bare copper Circuit Protective Conductor (CPC) in flat parallel lay-up
Outer sheath material & colour	Flat Grey PVC / White LSZH outer sheath (5.4 × 10.5 mm)	Standards	BS 6004 / BS 7211

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
6242Y / 6242B Flat Twin & Earth 300/500V BS 3 sizes										
☐ 6242Y / 6242B Flat Twin & Earth 300/500V BS (2×2.5 mm²)	2×2.5 mm²	Class 1 Solid Plain Copper	BS 6004 / BS 7211 Brown & Blue core insulation + central	LSZH Jacket	16.5	198	7.24	332.8	640	25 A
☐ 6242Y / 6242B Flat Twin & Earth 300/500V BS (2×4 mm²)	2×4 mm²	Class 1 Solid Plain Copper	BS 6004 / BS 7211 Brown & Blue core insulation + central	LSZH Jacket	19.5	234	4.53	463.3	891	34 A
☐ 6242Y / 6242B Flat Twin & Earth 300/500V BS (2×6 mm²)	2×6 mm²	Class 1 Solid Plain Copper	BS 6004 / BS 7211 Brown & Blue core insulation + central	LSZH Jacket	22.8	274	3.02	633.4	1,218	43 A

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

Standards and approvals

- ✓ BS 6004 / BS 7211 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/6242y-6242b-flat-twin-earth-300-500v-bs-6004-bs-7211**

Typical values for this cable type, based on Reference specification per BS 6004 / BS 7211 (6242Y / 6242B Flat Twin & Earth 300/500V BS). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.