BS EN 13602 TCEB 10×2 Tinned Copper Braid

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Flat Tinned Copper Flexible Earthing & Equipotential Bonding Braid

BS EN 13602 / DIN 46444 · Equipotential / EMC · −55…+150 °C industrial TCEB 10×2 Tinned

BS EN 13602 / DIN 46444 | **Equipotential / EMC** | **−55…+150 °C**



Application

Flat Tinned Copper Flexible Earthing & Equipotential Bonding Braid Strap (TCEB 10×2 Tinned Copper Braid) engineered to BS EN 13602 / DIN 46444 for Equipotential / EMC service across −55…+150 °C, featuring fine-stranded cu-etp copper filaments and flat

Typical uses: Automated Assembly & Packaging Lines, CNC Machine Tools & Robotics, PLC/DCS Control & Marshalling Cabinets, Industrial Drives & Motor Manufacturing, 25 kV AC & 1.5/3 kV DC Railway Overhead Catenary

Construction





Cross-section, not to scale

1	Fine-stranded Cu-ETP copper filaments	BS EN 13602 / DIN 46444
2	Flat rolled electro-tinned tubular braid weave	BS EN 13602 / DIN 46444

Technical data

Typical values

Rated voltage / duty	Equipotential / EMC (BS EN 13602 / DIN 46444)	**Conductor construction**	Fine-stranded Cu-ETP copper filaments — 0.15 mm or 0.20 mm annealed electrolytic copper (Cu-ETP) individual wires
Primary insulation / dielectric	Flat rolled electro-tinned tubular braid weave — Multi-carrier interwoven tinned copper braid rolled into a low-inductance flat strap	**Continuous operating temperature**	−55…+150 °C per BS EN 13602 / DIN 46444
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	**Minimum installation temperature**	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	Flat rolled electro-tinned tubular braid weave — Multi-carrier interwoven tinned copper braid rolled into a low-inductance flat strap	**Minimum bending radius**	3 × OD (installed / static routing)
Layer count & geometry	2 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with BS EN 13602 / DIN 46444
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	BS EN 13602 / DIN 46444

Sizes

12 standard constructions

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

Order designation	Configuration	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R fixed mm
TCEB 10×2 Tinned Copper Braid Standard Production Schedule (Equipotential / EMC · −55…+150 °C) 12 sizes				
☐ TCEB 10×2 Tinned Copper Braid 3G1.5	3 × 1.5 mm²	8.4	105	68
☐ TCEB 10×2 Tinned Copper Braid 4G1.5	4 × 1.5 mm²	9.2	128	74
☐ TCEB 10×2 Tinned Copper Braid 5G1.5	5 × 1.5 mm²	10.1	156	81
☐ TCEB 10×2 Tinned Copper Braid 3G2.5	3 × 2.5 mm²	9.8	148	78
☐ TCEB 10×2 Tinned Copper Braid 4G2.5	4 × 2.5 mm²	10.8	186	86
☐ TCEB 10×2 Tinned Copper Braid 5G2.5	5 × 2.5 mm²	11.9	228	95
☐ TCEB 10×2 Tinned Copper Braid 4G4	4 × 4.0 mm²	12.6	268	101
☐ TCEB 10×2 Tinned Copper Braid 4G6	4 × 6.0 mm²	14.2	365	114
☐ TCEB 10×2 Tinned Copper Braid 4G10	4 × 10 mm²	17.5	580	140
☐ TCEB 10×2 Tinned Copper Braid 4G16	4 × 16 mm²	20.4	845	163
☐ TCEB 10×2 Tinned Copper Braid 4G25	4 × 25 mm²	24.8	1,290	198
☐ TCEB 10×2 Tinned Copper Braid 4G35	4 × 35 mm²	27.9	1,710	223

– Single-core and multi-core sizes from 0.5 mm² up to 630 mm² (or AWG/kcmil) available per BS EN 13602 / DIN 46444.

Conductor resistance & current-carrying capacity

8 sizes

Cross-section	Max. DC R_{20} Ω/km	Current in air A (30 °C) ≈	Voltage drop mV/A·m
1.5 mm² (AWG 16)	13.30	18	29.0
2.5 mm² (AWG 14)	7.98	26	17.5
4.0 mm² (AWG 12)	4.95	34	10.9
6.0 mm² (AWG 10)	3.30	44	7.3
10 mm² (AWG 8)	1.91	61	4.2
16 mm² (AWG 6)	1.21	82	2.7
25 mm² (AWG 4)	0.78	108	1.7

Cross-section	Max. DC R_{20} Ω/km	Current in air A (30 °C) ≈	Voltage drop mV/A·m
35 mm² (AWG 2)	0.55	135	1.2

– Current ratings are for 3 loaded conductors at 30 °C ambient in free air/tray per IEC 60364-5-52 / NEC.

Standards and approvals

- ✓ BS EN 13602 Compliant
- ✓ EN 10204 3.1 Routine 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/tceb-10x2-flat-tinned-copper-earthing-braid-strap

Typical values for this cable type, based on BS EN 13602 / DIN 46444. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.