Flexible cords & appliance cables

F23 400Hz Airport 7-Core Copper Tape Shielded

0.6/1kV



VDE 0295 / IEC 60228 · 0.6/1 kV · -40°C to +90°C · Min. bend 8 × OD

VDE 0295 / IEC 60228 | 0.6/1 kV

Application

F23 400Hz Airport 7-Core Copper Tape Shielded 0.6/1kV manufactured to VDE 0295 / IEC 60228, rated 0.6/1 kV (400 Hz CTS Shielded 7-Core) and -40°C to +90°C with a 8 × 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	7×35 mm² Class 5 Bare Cu (1 Central Blue Neutral + 6 Outer XLPE Phases, Ø9.7 mm)
2	Insulation & Core Identification	XLPE 400Hz insulation (35 mm² Class 5 Bare Copper, Ø9.7 mm)
3	Screen / Bedding / Armour Layer	Polyolefin (PO) inner sheath + 100% Helical Bare Copper Tape Shield (CTS, F23)
4	Outer Protective Sheath	Black halogen-free Polyolefin (PO) outer sheath (OD 41.8 mm, F23)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV (400 Hz CTS Shielded 7-Core)	**Conductor & core insulation**	7×35 mm² Class 5 Bare Cu (1 Central Blue Neutral + 6 Outer XLPE Phases, Ø9.7 mm) · XLPE 400Hz insulation (35 mm² Class 5 Bare Copper, Ø9.7 mm)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	**Operating temperature range**	-40°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	**Flame & fire performance**	VDE 0295 / IEC 60228
Minimum bending radius	8 × OD	**Screening / armour architecture**	Polyolefin (PO) inner sheath + 100% Helical Bare Copper Tape Shield (CTS, F23)
Outer sheath material & colour	Black halogen-free Polyolefin (PO) outer sheath (OD 41.8 mm, F23)	**Standards**	VDE 0295 / IEC 60228

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
F23 400Hz Airport 7-Core Copper Tape Shielded 3 sizes										
☐ F23 400Hz Airport 7-Core Copper Tape Shielded (7×35 mm²)	7×35 mm²	Class 5 Flexible Plain Copper	XLPE 400Hz insulation	LSZH Jacket	41.8	334	0.52	2,135.1	4,106	131 A
☐ F23 400Hz Airport 7-Core Copper Tape Shielded (7×50 mm²)	7×50 mm²	Class 5 Flexible Plain Copper	XLPE 400Hz insulation	LSZH Jacket	49.3	394	0.36	2,972.8	5,717	159 A
☐ F23 400Hz Airport 7-Core Copper Tape Shielded (7×70 mm²)	7×70 mm²	Class 5 Flexible Plain Copper	XLPE 400Hz insulation	LSZH Jacket	57.7	462	0.26	4,065.9	7,819	202 A

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

Standards and approvals

- ✓ VDE 0295 / IEC 60228 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/f23-400hz-airport-7-core-copper-tape-shielded-0-6-1kv

Typical values for this cable type, based on Reference specification per VDE 0295 / IEC 60228 (F23 400Hz Airport 7-Core Copper Tape Shielded). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.