Flexible cords & appliance cables

F21 400Hz Airport 7-Core Copper Wire Braided

0.6/1kV



VDE 0271 / IEC 60228 · 0.6/1 kV · -40°C to +90°C · Min. bend 8 × OD

VDE 0271 / IEC 60228 | 0.6/1 kV

Application

F21 400Hz Airport 7-Core Copper Wire Braided 0.6/1kV manufactured to VDE 0271 / IEC 60228, rated 0.6/1 kV (400 Hz Screened 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	7×70 mm² Class 2/5 Bare Cu (1 Central Blue Neutral + 6 Outer XLPE Phases, Ø11.9 mm Cores)
2	Insulation & Core Identification	XLPE 400Hz insulation (70 mm² Bare Copper, Ø11.9 mm)
3	Screen / Bedding / Armour Layer	Extruded inner bedding + Bare Copper Wire Braid EMC screen (F21)
4	Outer Protective Sheath	Black heavy-duty PVC 400Hz outer sheath (OD 46.5 mm, F21)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV (400 Hz Screened 7-Core)	**Conductor & core insulation**	7×70 mm² Class 2/5 Bare Cu (1 Central Blue Neutral + 6 Outer XLPE Phases, Ø11.9 mm Cores) · XLPE 400Hz insulation (70 mm² Bare Copper, Ø11.9 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 0271 / IEC 60228
Minimum bending radius	8 × OD	**Screening / armour architecture**	Extruded inner bedding + Bare Copper Wire Braid EMC screen (F21)
Outer sheath material & colour	Black heavy-duty PVC 400Hz outer sheath (OD 46.5 mm, F21)	**Standards**	VDE 0271 / 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
F21 400Hz Airport 7-Core Copper Wire Braided 3 sizes										
☐ F21 400Hz Airport 7-Core Copper Wire Braided (7×70 mm²)	7×70 mm²	Class 2 Stranded Plain Copper	XLPE 400Hz insulation	Industrial PVC	46.5	372	0.26	2,642.1	5,081	202 A
☐ F21 400Hz Airport 7-Core Copper Wire Braided (7×95 mm²)	7×95 mm²	Class 2 Stranded Plain Copper	XLPE 400Hz insulation	Industrial PVC	54.9	439	0.19	3,679.0	7,075	244 A
☐ F21 400Hz Airport 7-Core Copper Wire Braided (7×120 mm²)	7×120 mm²	Class 2 Stranded Plain Copper	XLPE 400Hz insulation	Industrial PVC	64.2	514	0.15	5,032.0	9,677	282 A

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

Standards and approvals

- ✓ VDE 0271 / 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/f21-400hz-airport-7-core-copper-wire-braided-0-6-1kv

Typical values for this cable type, based on Reference specification per VDE 0271 / IEC 60228 (F21 400Hz Airport 7-Core Copper Wire Braided). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.