Flexible cords & appliance cables

F20 400Hz Airport 7-Core Symmetrical 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

F20 400Hz Airport 7-Core Symmetrical 0.6/1kV manufactured to VDE 0271 / IEC 60228, rated 0.6/1 kV (400 Hz Low-Inductance 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 2/5 Bare Cu (1 Central Blue Neutral + 6 Outer Symmetrical Black/Brown/Grey Phases, Ø10.6 mm Cores)
2	**Insulation & Core Identification**	XLPE / PVC 400Hz low-reactance insulation (35 mm² Bare Copper, Ø10.6 mm)
3	**Screen / Bedding / Armour Layer**	Core binder tape
4	**Outer Protective Sheath**	Black heavy-duty PVC 400Hz airport & radar outer sheath (OD 39.0 mm, F20)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV (400 Hz Low-Inductance 7-Core)	Conductor & core insulation	7×35 mm² Class 2/5 Bare Cu (1 Central Blue Neutral + 6 Outer Symmetrical Black/Brown/Grey Phases, Ø10.6 mm Cores) · XLPE / PVC 400Hz low-reactance insulation (35 mm² Bare Copper, Ø10.6 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	Core binder tape
Outer sheath material & colour	Black heavy-duty PVC 400Hz airport & radar outer sheath (OD 39.0 mm, F20)	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
F20 400Hz Airport 7-Core Symmetrical 0.6/1kV 3 sizes										
☐ F20 400Hz Airport 7-Core Symmetrical 0.6/1kV (7×35 mm²)	7×35 mm²	Class 5 Flexible Plain Copper	XLPE / PVC 400Hz low-reactance insulation	Industrial PVC	39.0	312	0.52	1,858.5	3,574	131 A
☐ F20 400Hz Airport 7-Core Symmetrical 0.6/1kV (7×50 mm²)	7×50 mm²	Class 5 Flexible Plain Copper	XLPE / PVC 400Hz low-reactance insulation	Industrial PVC	46.0	368	0.36	2,588.0	4,977	159 A
☐ F20 400Hz Airport 7-Core Symmetrical 0.6/1kV (7×70 mm²)	7×70 mm²	Class 5 Flexible Plain Copper	XLPE / PVC 400Hz low-reactance insulation	Industrial PVC	53.8	430	0.26	3,539.6	6,807	202 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/f20-400hz-airport-7-core-symmetrical-0-6-1kv**

Typical values for this cable type, based on Reference specification per VDE 0271 / IEC 60228 (F20 400Hz Airport 7-Core Symmetrical 0.6/1kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.