Fire-resistant & circuit-integrity cables

JE-H(St)H FE180/E30 Bd 225V VDE 0815

Fire-Resistant



DIN VDE 0815 / DIN 4102-12 E30 · 225 V · -25°C to +90°C · Min. bend 10 × OD

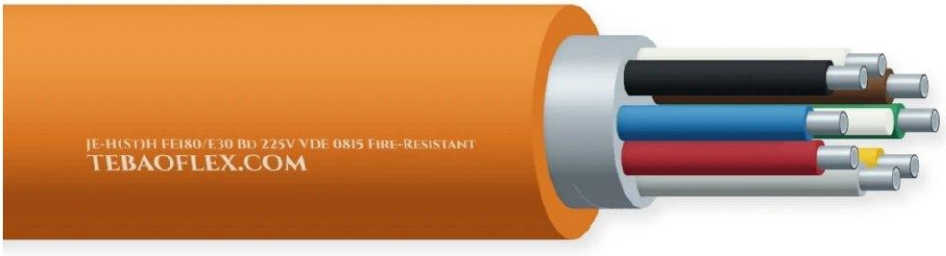
DIN VDE 0815 / DIN 4102-12 E30 | 225 V

Application

JE-H(St)H FE180/E30 Bd 225V VDE 0815 Fire-Resistant manufactured to DIN VDE 0815 / DIN 4102-12 E30, rated 225 V and -25°C to +90°C with a 10 × OD minimum bending radius for oil, gas & petrochemical 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	4×2×0.8 mm Class 1 Solid Tinned Cu
2	Insulation & Core Identification	FE180/E30 circuit-integrity halogen-free FRNC insulation (0.8 mm Solid TC)
3	Screen / Bedding / Armour Layer	LSZH filler + 100% Plastic-Coated Aluminium Foil screen + drain wire
4	Outer Protective Sheath	Orange FE180/E30 flame-retardant non-corrosive (FRNC/LSZH) outer sheath (OD 9.3 mm)

Technical data

Typical values

Nominal / reference voltage	225 V	Conductor & core insulation	4×2×0.8 mm Class 1 Solid Tinned Cu · FE180/E30 circuit-integrity halogen-free FRNC insulation (0.8 mm Solid TC)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	DIN VDE 0815 / DIN 4102-12 E30
Minimum bending radius	10 × OD	Screening / armour architecture	LSZH filler + 100% Plastic-Coated Aluminium Foil screen + drain wire
Outer sheath material & colour	Orange FE180/E30 flame-retardant non-corrosive (FRNC/LSZH) outer sheath (OD 9.3 mm)	Standards	DIN VDE 0815 / DIN 4102-12 E30

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
JE-H(St)H FE180/E30 Bd 225V VDE 0815 3 sizes										
☐ JE-H(St)H FE180/E30 Bd 225V VDE 0815 (2×2×0.8 mm)	2×2×0.8 mm	Class 1 Solid Tinned Copper	FE180/E30 circuit-integrity halogen-free FRNC insulation	LSZH Jacket	9.3	93	35.98	105.6	203	4 A
☐ JE-H(St)H FE180/E30 Bd 225V VDE 0815 (4×2×0.8 mm)	4×2×0.8 mm	Class 1 Solid Tinned Copper	FE180/E30 circuit-integrity halogen-free FRNC insulation	LSZH Jacket	11.0	110	35.98	147.2	283	4 A
☐ JE-H(St)H FE180/E30 Bd 225V VDE 0815 (8×2×0.8 mm)	8×2×0.8 mm	Class 1 Solid Tinned Copper	FE180/E30 circuit-integrity halogen-free FRNC insulation	LSZH Jacket	12.8	128	35.98	201.2	387	4 A

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

Standards and approvals

- ✓ DIN VDE 0815 / DIN 4102-12 E30 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/je-h-st-h-fe180-e30-bd-225v-vde-0815-fire-resistant**

Typical values for this cable type, based on Reference specification per DIN VDE 0815 / DIN 4102-12 E30 (JE-H(St)H FE180/E30 Bd 225V VDE 0815). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.