

Power & distribution cables

AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620

SS 424 14 16 / HD 620-10M · 6/10–18/30 kV · -25°C to +90°C · Min. bend 15 × OD

SS 424 14 16 / HD 620-10M | 6/10–18/30 kV

Application

AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620 manufactured to SS 424 14 16 / HD 620-10M, rated 6/10 (12) kV – 18/30 (36) kV and -25°C to +90°C with a 15 × OD minimum bending radius for renewable energy 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	3×150/35 mm² Watertight Stranded Al
2	Insulation & Core Identification	SS 424 14 16 triple-extruded XLPE insulation (150 mm² Watertight Aluminium)
3	Screen / Bedding / Armour Layer	Semi-conductive water-swellable bedding tape + Collective annealed copper wire screen (35 mm²) + equalising tape + Aluminium/PE laminate radial moisture barrier
4	Outer Protective Sheath	Black LLDPE / HDPE ST7 outer sheath (OD 61.0 mm)

Technical data

Typical values

Nominal / reference voltage	6/10 (12) kV – 18/30 (36) kV	Conductor & core insulation	3×150/35 mm² Watertight Stranded Al · SS 424 14 16 triple-extruded XLPE insulation (150 mm² Watertight Aluminium)
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	SS 424 14 16 / HD 620-10M
Minimum bending radius	15 × OD	Screening / armour architecture	Semi-conductive water-swellable bedding tape + Collective annealed copper wire screen (35 mm²) + equalising tape + Aluminium/PE laminate radial moisture barrier
Outer sheath material & colour	Black LLDPE / HDPE ST7 outer sheath (OD 61.0 mm)	Standards	SS 424 14 16 / HD 620-10M

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	Conductor weight kg/km	Cable weight kg/km	Key electrical / optical rating
AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620 3 sizes										
☐ AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620 (3×150/35 mm²)	3×150/35 mm²	Class 2 Watertight Compacted Aluminium	SS 424 14 16 triple-extruded XLPE insulation	Outdoor PE	61.0	915	0.19	2,333.2	6,140	250 A
☐ AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620 (3×185/35 mm²)	3×185/35 mm²	Class 2 Watertight Compacted Aluminium	SS 424 14 16 triple-extruded XLPE insulation	Outdoor PE	72.0	1,080	0.15	3,248.6	8,549	286 A
☐ AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620 (3×240/35 mm²)	3×240/35 mm²	Class 2 Watertight Compacted Aluminium	SS 424 14 16 triple-extruded XLPE insulation	Outdoor PE	84.2	1,263	0.12	4,443.0	11,692	336 A

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

Standards and approvals

- ✓ SS 424 14 16 / HD 620-10M 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/axlj-f-axqj-12-20-24-kv-ss-424-14-16-hd-620**

Typical values for this cable type, based on Reference specification per SS 424 14 16 / HD 620-10M (AXLJ-F / AXQJ 12/20(24)kV SS 424 14 16 / HD 620). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.