Power & distribution cables

AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636



SFS 5636 / HD 620-10F · 6/10 (12) kV – 12/20 (24) kV · -40°C to +90°C · Min. bend 15 × OD

SFS 5636 / HD 620-10F | 6/10–12/20 kV

Application

AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636 manufactured to SFS 5636 / HD 620-10F, rated 6/10 (12) kV – 12/20 (24) kV and -40°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	3×1×95 mm² + 35 mm² Cu/Al Screen + 62 mm² Messenger
2	Insulation & Core Identification	SFS 5636 triple-extruded XLPE insulation (95 mm² Watertight Aluminium)
3	Metallic Phase Screen	3 × 35 mm² Aluminum phase screens over extruded semi-con
4	Triplex Laid-Up Phase Sheaths	Triplex laid-up weather-resistant Black PE phase sheaths + galvanized steel messenger

Technical data

Typical values

Nominal / reference voltage	6/10 (12) kV – 12/20 (24) kV	Conductor & core insulation	3×1×95 mm² + 35 mm² Cu/Al Screen + 62 mm² Messenger · SFS 5636 triple-extruded XLPE insulation (95 mm² Watertight Aluminium)
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	SFS 5636 / HD 620-10F
Minimum bending radius	15 × OD	Screening / armour architecture	3 × 35 mm² Aluminum phase screens over extruded semi-con
Outer sheath material & colour	Triplex laid-up weather-resistant Black PE phase sheaths + galvanized steel messenger	Standards	SFS 5636 / HD 620-10F

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
AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636 3 sizes										
☐ AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636 (1×95 mm²)	1×95 mm²	Class 2 Stranded Aluminium / Copper	SFS 5636 triple-extruded XLPE insulation	Outdoor PE	65.0	975	0.19	5,163.1	9,929	244 A
☐ AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636 (1×120 mm²)	1×120 mm²	Class 2 Stranded Aluminium / Copper	SFS 5636 triple-extruded XLPE insulation	Outdoor PE	76.7	1,150	0.15	7,189.0	13,825	282 A
☐ AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636 (1×150 mm²)	1×150 mm²	Class 2 Stranded Aluminium / Copper	SFS 5636 triple-extruded XLPE insulation	Outdoor PE	89.7	1,346	0.12	9,832.2	18,908	324 A

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

Standards and approvals

- ✓ SFS 5636 / HD 620-10F 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/ahxamk-w-ahxcmk-wtc-12-20-24-kv-sfs-5636**

Typical values for this cable type, based on Reference specification per SFS 5636 / HD 620-10F (AHXAMK-W / AHXCMK-WTC 12/20(24)kV SFS 5636). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.