

Power & distribution cables

A2XS(FL)2Y 26/45kV–76/132kV HD 632

HD 632 / IEC 60840 · 26/45 (52) kV – 76/132 (145) kV · -25°C to +90°C · Min. bend 15 × OD

HD 632 / IEC 60840 | 26/45–76/132 kV

Application

A2XS(FL)2Y 26/45kV–76/132kV HD 632 manufactured to HD 632 / IEC 60840, rated 26/45 (52) kV – 76/132 (145) 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**	1×300 mm² RM Watertight Compacted Al
2	**Insulation & Core Identification**	HV super-clean XLPE dielectric (300 mm² RM Aluminium, 26/45 kV)
3	**Screen / Bedding / Armour Layer**	Semi-conducting longitudinal water-swellable tape (F) + Helical copper wire screen + equalising copper tape + Copolymer-coated aluminium foil radial moisture barrier (L)
4	**Outer Protective Sheath**	Black high-density Polyethylene (HDPE ST7) outer sheath (OD 58.0 mm)

Technical data

Typical values

Nominal / reference voltage	26/45 (52) kV – 76/132 (145) kV	Conductor & core insulation	1×300 mm² RM Watertight Compacted Al · HV super-clean XLPE dielectric (300 mm² RM Aluminium, 26/45 kV)
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	HD 632 / IEC 60840
Minimum bending radius	15 × OD	Screening / armour architecture	Semi-conducting longitudinal water-swellable tape (F) + Helical copper wire screen + equalising copper tape + Copolymer-coated aluminium foil radial moisture barrier (L)
Outer sheath material & colour	Black high-density Polyethylene (HDPE ST7) outer sheath (OD 58.0 mm)	Standards	HD 632 / IEC 60840

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
A2XS(FL)2Y 26/45kV–76/132kV HD 632 3 sizes										
☐ A2XS(FL)2Y 26/45kV–76/132kV HD 632 (1×300 mm²)	1×300 mm²	Class 2 Watertight Compacted Aluminium	HV super-clean XLPE dielectric	Outdoor PE	58.0	870	0.09	2,109.4	5,551	385 A
☐ A2XS(FL)2Y 26/45kV–76/132kV HD 632 (1×400 mm²)	1×400 mm²	Class 2 Watertight Compacted Aluminium	HV super-clean XLPE dielectric	Outdoor PE	68.4	1,026	0.07	2,937.0	7,729	445 A
☐ A2XS(FL)2Y 26/45kV–76/132kV HD 632 (1×500 mm²)	1×500 mm²	Class 2 Watertight Compacted Aluminium	HV super-clean XLPE dielectric	Outdoor PE	80.0	1,200	0.06	4,017.0	10,571	515 A

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

Standards and approvals

- ✓ HD 632 / IEC 60840 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/a2xs-fl-2y-26-45kv-76-132kv-hd-632**

Typical values for this cable type, based on Reference specification per HD 632 / IEC 60840 (A2XS(FL)2Y 26/45kV–76/132kV HD 632). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.