Power & distribution cables

E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV

HD 620

HD 620 / IEC 60502-2 · 6/10 kV – 18/30 (36) kV · -25°C to +90°C · Min. bend 15 × OD



HD 620 / IEC 60502-2 | 6/10–18/30 kV

Application

E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV HD 620 manufactured to HD 620 / IEC 60502-2, rated 6/10 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	1×185/25 mm² Class 2 Stranded Al
2	Insulation & Core Identification	E-A2XHC2Y 12/20kV XLPE dielectric (185 mm² Class 2 Stranded Aluminium)
3	Screen / Bedding / Armour Layer	Helical copper wire screen (25 mm²) + counter-helix copper tape + Non-woven separator binder tape
4	Outer Protective Sheath	Black Medium-Density Polyethylene (MDPE) outer sheath (OD 33.2 mm)

Technical data

Typical values

Nominal / reference voltage	6/10 kV – 18/30 (36) kV	Conductor & core insulation	1×185/25 mm² Class 2 Stranded Al · E-A2XHC2Y 12/20kV XLPE dielectric (185 mm² Class 2 Stranded 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	HD 620 / IEC 60502-2
Minimum bending radius	15 × OD	Screening / armour architecture	Helical copper wire screen (25 mm²) + counter-helix copper tape + Non-woven separator binder tape
Outer sheath material & colour	Black Medium-Density Polyethylene (MDPE) outer sheath (OD 33.2 mm)	Standards	HD 620 / IEC 60502-2

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
E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV 3 sizes										
☐ E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV (1×185/25 mm²)	1×185/25 mm²	Class 2 Compacted Stranded Aluminium	E-A2XHC2Y 12/20kV XLPE dielectric	Outdoor PE	33.2	498	0.15	691.2	1,819	286 A
☐ E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV (1×240/25 mm²)	1×240/25 mm²	Class 2 Compacted Stranded Aluminium	E-A2XHC2Y 12/20kV XLPE dielectric	Outdoor PE	39.2	588	0.12	962.2	2,532	336 A
☐ E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV (1×300/25 mm²)	1×300/25 mm²	Class 2 Compacted Stranded Aluminium	E-A2XHC2Y 12/20kV XLPE dielectric	Outdoor PE	45.8	687	0.09	1,316.3	3,464	385 A

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

Standards and approvals

- ✓ HD 620 / IEC 60502-2 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/e-a2xhc2y-e-a2xhcj2y-e-a2xhcy-12-20-24-kv-hd-620

Typical values for this cable type, based on Reference specification per HD 620 / IEC 60502-2 (E-A2XHC2Y / E-A2XHCJ2Y / E-A2XHCY 12/20(24)kV). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.