Power & distribution cables

E-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE / 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-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE / 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	1×150/25 mm² Class 2 Stranded Cu
2	Insulation & Core Identification	E-2XHC2Y 12/20kV XLPE dielectric (150 mm² Class 2 Stranded Copper)
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 31.0 mm)

Technical data

Typical values

Nominal / reference voltage	6/10 kV – 18/30 (36) kV	Conductor & core insulation	1×150/25 mm² Class 2 Stranded Cu · E-2XHC2Y 12/20kV XLPE dielectric (150 mm² Class 2 Stranded Copper)
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 31.0 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	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
E-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE 3 sizes										
☐ E-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE (1×150/25 mm²)	1×150/25 mm²	Class 2 Stranded Plain Copper	E-2XHC2Y 12/20kV XLPE dielectric	Outdoor PE	31.0	465	0.12	1,174.2	2,258	324 A
☐ E-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE (1×185/25 mm²)	1×185/25 mm²	Class 2 Stranded Plain Copper	E-2XHC2Y 12/20kV XLPE dielectric	Outdoor PE	36.6	549	0.10	1,635.4	3,145	371 A
☐ E-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE (1×240/25 mm²)	1×240/25 mm²	Class 2 Stranded Plain Copper	E-2XHC2Y 12/20kV XLPE dielectric	Outdoor PE	42.8	642	0.08	2,236.5	4,301	436 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-2xhc2y-e-2xhcj2y-e-2xhcy-12-20-24-kv-vde-hd-620**

Typical values for this cable type, based on Reference specification per HD 620 / IEC 60502-2 (E-2XHC2Y / E-2XHCJ2Y / E-2XHCY 12/20(24)kV VDE). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.