Power & distribution cables

EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN HD 620



NBN HD 620-10C / IEC 60502-2 · 6/10–12/20 kV · -25°C to +90°C · Min. bend 15 × OD

NBN HD 620-10C / IEC 60502-2 | 6/10–12/20 kV

Application

EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN HD 620 manufactured to NBN HD 620-10C / IEC 60502-2, rated 6/10 kV – 12/20 (24) 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**	1×120/25 mm² Class 2 Stranded Cu
2	**Insulation & Core Identification**	NBN HD 620 XLPE dielectric (120 mm² Class 2 Stranded Copper)
3	**Screen / Bedding / Armour Layer**	Helical copper wire screen (25 mm²) + copper equalising tape + Polyester separator tape
4	**Outer Protective Sheath**	Red Low Smoke Zero Halogen (LSZH) outer sheath (OD 28.5 mm)

Technical data

Typical values

Nominal / reference voltage	6/10 kV – 12/20 (24) kV	Conductor & core insulation	1×120/25 mm² Class 2 Stranded Cu · NBN HD 620 XLPE dielectric (120 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	NBN HD 620-10C / IEC 60502-2
Minimum bending radius	15 × OD	Screening / armour architecture	Helical copper wire screen (25 mm²) + copper equalising tape + Polyester separator tape
Outer sheath material & colour	Red Low Smoke Zero Halogen (LSZH) outer sheath (OD 28.5 mm)	Standards	NBN HD 620-10C / 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
EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN HD 620 3 sizes										
☐ EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN HD 620 (1×120/25 mm²)	1×120/25 mm²	Class 2 Stranded Plain Copper	NBN HD 620 XLPE dielectric	LSZH Jacket	28.5	428	0.15	992.7	1,909	282 A
☐ EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN HD 620 (1×150/25 mm²)	1×150/25 mm²	Class 2 Stranded Plain Copper	NBN HD 620 XLPE dielectric	LSZH Jacket	33.6	504	0.12	1,382.2	2,658	324 A
☐ EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN HD 620 (1×185/25 mm²)	1×185/25 mm²	Class 2 Stranded Plain Copper	NBN HD 620 XLPE dielectric	LSZH Jacket	39.3	590	0.10	1,890.2	3,635	371 A

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

Standards and approvals

- ✓ NBN HD 620-10C / 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/excg-excwb-excvb-6-10kv-12-20kv-nbn-hd-620**

Typical values for this cable type, based on Reference specification per NBN HD 620-10C / IEC 60502-2 (EXCG / EXCWB / EXCVB 6/10kV–12/20kV NBN 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.