Power & distribution cables

N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620



VDE 0276-620 · 6/10–18/30 kV · -25°C to +90°C · Min. bend 15 × OD

VDE 0276-620 | 6/10–18/30 kV

Application

N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 manufactured to VDE 0276-620, rated 6/10 (12) kV / 8.7/15 (17.5) kV / 12/20 (24) 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 RM Compacted Cu
2	Insulation & Core Identification	VDE 0276-620 2XI1 XLPE dielectric (185 mm² Compacted Copper)
3	Screen / Bedding / Armour Layer	Semi-conductive longitudinal water-blocking swellable tape (F) + Helical copper wire screen (25 mm²) + counter-helix copper tape + Non-woven longitudinal water-swellable wrapping tape
4	Outer Protective Sheath	Black DMP2 HDPE / MDPE outer sheath (OD 33.0 mm)

Technical data

Typical values

Nominal / reference voltage	6/10 (12) kV / 8.7/15 (17.5) kV / 12/20 (24) kV / 18/30 (36) kV	Conductor & core insulation	1×185/25 mm² RM Compacted Cu · VDE 0276-620 2XI1 XLPE dielectric (185 mm² Compacted 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	VDE 0276-620
Minimum bending radius	15 × OD	Screening / armour architecture	Semi-conductive longitudinal water-blocking swellable tape (F) + Helical copper wire screen (25 mm²) + counter-helix copper tape + Non-woven longitudinal water-swellable wrapping tape
Outer sheath material & colour	Black DMP2 HDPE / MDPE outer sheath (OD 33.0 mm)	Standards	VDE 0276-620

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
N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 3 sizes										
☐ N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 (1×185/25 mm²)	1×185/25 mm²	Class 2 Stranded Plain Copper	VDE 0276-620 2XI1 XLPE dielectric	Outdoor PE	33.0	495	0.10	1,330.7	2,559	371 A
☐ N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 (1×240/25 mm²)	1×240/25 mm²	Class 2 Stranded Plain Copper	VDE 0276-620 2XI1 XLPE dielectric	Outdoor PE	38.9	584	0.08	1,852.8	3,563	436 A
☐ N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 (1×300/25 mm²)	1×300/25 mm²	Class 2 Stranded Plain Copper	VDE 0276-620 2XI1 XLPE dielectric	Outdoor PE	45.5	682	0.06	2,534.5	4,874	500 A

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

Standards and approvals

- ✓ VDE 0276-620 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/n2xs-f-2y-6-10kv-18-30kv-vde-0276-620-hd-620**

Typical values for this cable type, based on Reference specification per VDE 0276-620 (N2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / 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.