DIN VDE 0276-620 flat-steel-armoured MV feeder cable

N2XSEYFGbY

6/10 kV XLPE Flat-Steel-Armoured Feeder Cable

DIN VDE 0276-620 / IEC 60502-2 · 6/10 kV · XLPE flat-steel-wire armoured feeder cable



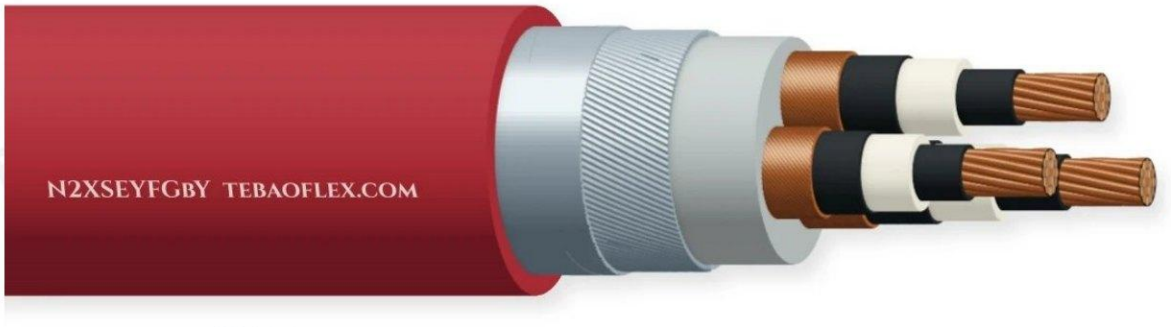
DIN VDE 0276-620 | 6/10 kV XLPE (2X) | Flat Steel Armour (FGb)

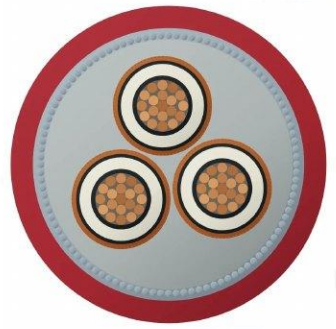
Application

N2XSEYFGbY 6/10 kV medium-voltage mining and industrial distribution cable per DIN VDE 0276-620, featuring Class 2 copper conductors, triple-extruded 90 °C XLPE cores (2X), copper wire screens (SE), flat steel wire armour (FGb) and FR-PVC sheath.

Typical uses: Underground Coal & Hard-Rock Mining, Open-Cast Excavators, Draglines & Shovels, Vertical Mine Shafts, Hoists & Boreholes, Tunneling, Mineral Processing & Slurry Plants

Construction





Cross-section, not to scale

1. Phase Conductors (3×95 mm²)
2. Triple-Extruded XLPE Core (2X)
3. Individual Copper Wire Screen (SE)
4. PVC Bedding & Steel Armour (FGb)
5. Outer Sheath (FR-PVC)

Technical data

Typical values

Rated voltage / transmission duty	6/10 kV (DIN VDE 0276-620 / IEC 60502-2)	**Core / conductor construction**	Phase Conductors (3×95 mm²) — IEC 60228 Class 2 compacted circular plain copper conductors
Primary dielectric / buffering	Triple-Extruded XLPE Core (2X) — Inner semicon + 90 °C dry-cured XLPE dielectric + strippable outer semicon	**Continuous operating temperature**	-20 to +90 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0276-620 / IEC 60502-2	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Outer Sheath (FR-PVC) — Heavy-duty flame-retardant, oil- and UV-resistant PVC outer jacket	**Minimum bending radius**	15 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per DIN VDE 0276-620 / IEC 60502-2	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per DIN VDE 0276-620 / IEC 60502-2
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per DIN VDE 0276-620 / IEC 60502-2	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0276-620 / 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.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
N2XSEYFGbY Construction Schedule (-20 to +90 °C) 3 sizes						
☐ **N2XSEYFGbY 3×70/16 mm² 6/10 kV**	**3 × 70 mm² / 16 mm² SE**	**Class 2 compacted Cu**	**54.0**	**4,560**	**31.5**	**810**
☐ **N2XSEYFGbY 3×95/16 mm² 6/10 kV**	**3 × 95 mm² / 16 mm² SE**	**Class 2 compacted Cu**	**58.2**	**5,480**	**42.8**	**875**
☐ **N2XSEYFGbY 3×150/25 mm² 6/10 kV**	**3 × 150 mm² / 25 mm² SE**	**Class 2 compacted Cu**	**65.5**	**7,490**	**67.5**	**985**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DIN VDE 0276-620 / IEC 60502-2.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 70 mm² / 16 mm² SE	**0.27**	**6/10 kV (250 A in ground)**	**-20 to +90 °C**
3 × 95 mm² / 16 mm² SE	**0.19**	**6/10 kV (298 A in ground)**	**-20 to +90 °C**
3 × 150 mm² / 25 mm² SE	**0.12**	**6/10 kV (385 A in ground)**	**-20 to +90 °C**

– Every production length undergoes routine conductor DC resistance, high-voltage Spark/AC dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- VDE 0276-620 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, 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/n2xseyfgby-6-10kv-xlpe-copper-screened-flat-steel-wire-armoured-feeder-cable

Typical values for this cable type, based on DIN VDE 0276-620 / IEC 60502-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.