DIN VDE 0271 flat-steel-armoured 3.6/6 kV power cable

NYFGY

3.6/6 kV DIN VDE 0271 Flat-Steel-Armoured Cable

DIN VDE 0271 / IEC 60502-2 · 3.6/6 kV · Flat-steel-wire armoured mining power cable

DIN VDE 0271 | 3.6/6 kV YI4 PVC | Flat Steel Armour (FG)

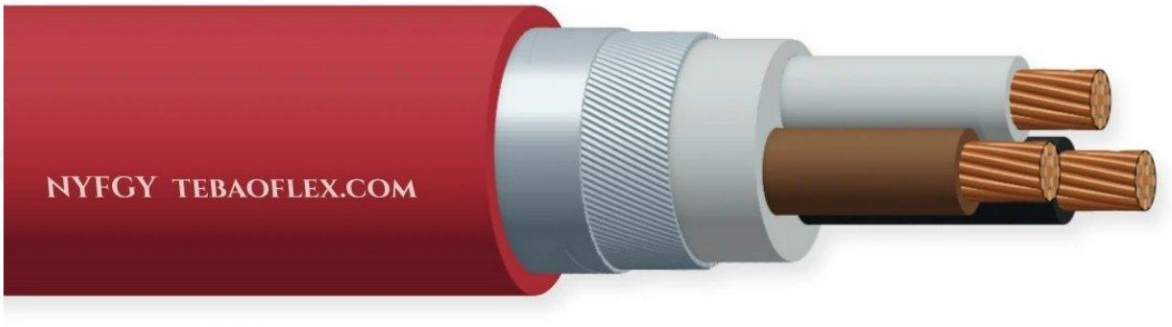


Application

NYFGY 3.6/6 kV armoured power distribution cable per DIN VDE 0271 for underground mining galleries, inclined shafts and plant feeders, combining Class 2 copper conductors, YI4 MV PVC insulation, flat steel wire armour (FG) and red 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. MV PVC Core Insulation (YI4)
3. Tightness Inner Sheath
4. Flat Steel Wire & Counter-Tape (FG)
5. Outer Sheath (Red FR-PVC)

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV (DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2)	**Core / conductor construction**	Phase Conductors (3×95 mm²) — DIN EN 60228 Class 2 stranded annealed plain copper conductors
Primary dielectric / buffering	MV PVC Core Insulation (YI4) — High-dielectric YI4 compound PVC insulation rated for 3.6/6 kV	**Continuous operating temperature**	-20 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	Outer Sheath (Red FR-PVC) — Flame-retardant red PVC outer jacket per DIN VDE 0271 / IEC 60332-1-2	**Minimum bending radius**	12 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2		

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
NYFGY Construction Schedule (-20 to +70 °C) 3 sizes						
☐ **NYFGY 3×50 rm 3.6/6 kV**	**3 × 50 mm² + FG Armour**	**Class 2 plain Cu**	**39.5**	**2,840**	**22.5**	**475**
☐ **NYFGY 3×95 rm 3.6/6 kV**	**3 × 95 mm² + FG Armour**	**Class 2 plain Cu**	**47.8**	**4,620**	**42.8**	**575**
☐ **NYFGY 3×150 rm 3.6/6 kV**	**3 × 150 mm² + FG Armour**	**Class 2 plain Cu**	**55.4**	**6,590**	**67.5**	**665**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 50 mm² + FG Armour	**0.39**	**3.6/6 kV (175 A)**	**-20 to +70 °C**
3 × 95 mm² + FG Armour	**0.19**	**3.6/6 kV (255 A)**	**-20 to +70 °C**
3 × 150 mm² + FG Armour	**0.12**	**3.6/6 kV (330 A)**	**-20 to +70 °C**

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

Standards and approvals

- DIN VDE 0271 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/nyfgy-3-6-6kv-din-vde-0271-flat-steel-wire-armoured-mining-power-cable

Typical values for this cable type, based on DIN VDE 0271 / IEC 60502-2 / IEC 60332-1-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.