TUNNELFLEX-PUR HF

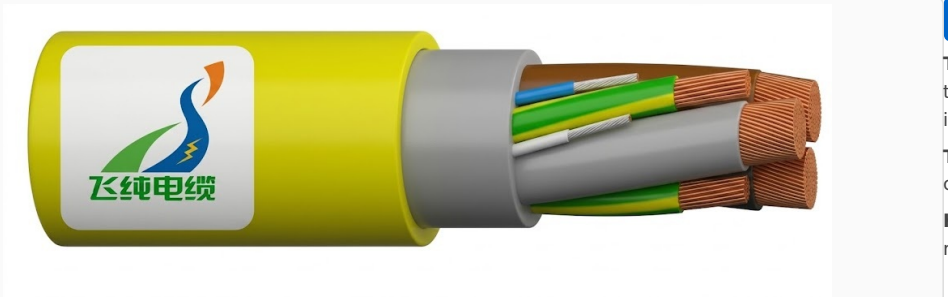
Without Antitwisting Protection | Halogen-Free Low Voltage Power Cable for Mobile Applications | 0.6/1 kV

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Halogen-Free Power Cable for Mining & Tunnelling

TUNNELFLEX-PUR HF supplies power to mobile equipment with high risk of mechanical damage in mining and tunnelling. Due to its construction without anti-twisting protection, the cable is suitable for applications where it is deflected in one plane only. Maximum speed 60 m/min.

Total Configurations: 20 — 11 standard power-only constructions plus 9 constructions with integrated control cores, covering conductor sizes from 4G10 mm² up to 3×240 mm².

Key Advantages: Halogen-free & flame retardant • Optimized for single-plane deflection • Tear, oil & chemical resistant PUR sheath • Robust performance in mobile mining equipment

Technical Summary & Specifications

ELECTRICAL

Rated Voltage: 0.6/1 (1.2) kV

Max operating voltage Um: 1.2 kV

Test Voltage: 3.5 kV

THERMAL

Max conductor temp: 90°C

Short circuit temp: 250°C

Fixed install: -40 to +80°C

Flexible install: -30 to +80°C

MECHANICAL

Travel speed: 60 m/min

Bending radius (fixed): 6×D

Bending radius (on drums): 10×D

CHEMICAL

Halogen Free: ✓ Yes

Flame Retardant: ✓ EN/IEC 60332-1-2

Fire Behaviour: In accordance with EN/IEC 60332-1-2

Standards: DIN EN 60228 / IEC 60228 / VDE 0295 (Conductor) • DIN VDE 0298-300 (Core identification) • IEC 60754-1 (Halogen-free) • DIN EN 60332-1-2 / IEC 60332-1-2 (Fire performance)

Cable Construction

Conductor & Insulation

1. Conductor — plain copper, flexible, class 5
2. Core insulation — XLPE special compound (Brown / Black / Grey)

Core Arrangement

3. Phase cores laid up with earth core in the interstices
4. Earth core — plain copper, flexible, class 5
5. Control cores — optional (without on standard construction)

Sheath

6. Inner sheath — HFFR* thermoplastic polyurethane compound
7. Outer sheath — HFFR* thermoplastic polyurethane compound, tear, oil & chemical resistant

*halogen free and flame retardant

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Complete Technical Specifications — All 20 Configurations

TUNNELFLEX-PUR HF-0.6/1kV — 11 Configurations (Standard, No Control Cores)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Bending Radius, Fixed (mm)	Current Carrying Capacity (A)
4G10	4.0	18.0	20.0	580	800	120	74
4G16	5.1	20.0	22.0	870	1,280	132	99
3×25+3G6	6.5	22.5	24.0	1,120	1,500	144	131
3×35+3G6	7.5	25.5	28.0	1,490	2,100	168	162
3×50+3G10	9.1	29.5	32.0	2,100	3,000	192	202
3×70+3G16	10.8	34.0	37.0	2,960	4,200	222	250
3×95+3G16	12.1	37.5	40.5	3,640	5,700	243	301
3×120+3G25	14.3	42.0	45.0	4,750	7,200	270	352
3×150+3G25	16.1	47.5	50.5	5,740	9,000	303	404
3×185+3G35	17.5	52.0	55.0	6,960	11,100	330	461
3×240+3G50	19.9	58.0	61.0	9,130	14,400	366	540

TUNNELFLEX-R-PUR HF-0.6/1kV — 9 Configurations (With Control Cores)

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Bending Radius, Fixed (mm)	Current Carrying Capacity (A)
3×25+3G6+2×1	6.5	22.5	24.0	1,150	1,500	144	131
3×35+3G6+2×1.5	7.5	26.0	28.0	1,530	2,100	168	162
3×50+3G10+2×1.5	9.1	29.5	32.0	2,130	3,000	192	202
3×70+3G16+2×1.5	10.8	34.0	37.0	2,990	4,200	222	250
3×95+3G16+2×1.5	12.1	37.5	40.5	3,670	5,700	243	301
3×120+3G25+2×1.5	14.3	42.0	45.0	4,780	7,200	270	352
3×150+3G25+2×1.5	16.1	47.5	50.5	5,780	9,000	303	404
3×185+3G35+2×1.5	17.5	52.0	55.0	7,000	11,100	330	461
3×240+3G50+2×1.5	19.9	58.0	61.0	9,170	14,400	366	540

Applications

Application	Benefit
Mobile Mining Equipment	Power supply where cable is deflected in one plane only, up to 60 m/min
Tunnelling Machinery	Halogen-free construction improves confined-space fire safety
Conveyors & Feeders	Robust PUR sheath resists tear, oil, and chemical exposure
Instrumented Power Circuits	TUNNELFLEX-R variant integrates control cores for combined power + signal

Ordering Information

For custom lengths, drum packaging, special core counts, or technical consultation, please contact us directly via WhatsApp or visit our websites below. All 20 standard configurations are available ex-works with standard lead times.

Contact AnHui Feichun Special Cable Co., Ltd
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