TROMMELFLEX-M-PUR D2X11Y

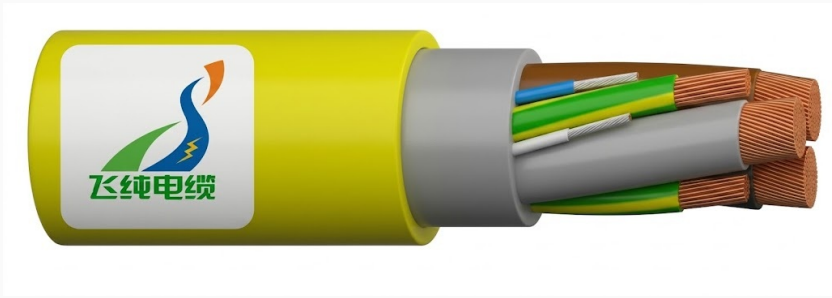
Flexible Low Voltage Reeling Cable for Drills and LHD | 0.6/1 kV

AnHui Feichun Special Cable Co., Ltd

WhatsApp: +86 13855123218

feichuncables.com

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Flexible PUR Reeling Cable for Drills and LHD

TROMMELFLEX-M-PUR is a flexible low voltage reeling cable with optimized dimensions and flame retardant, halogen-free polyurethane outer sheath. Used as power supply for underground mining and tunnelling equipment, designed for frequently changing dynamic loads such as reeling operation on drilling machines, scoops, and LHD's.

Total Configurations: 12 — covering conductor sizes from 3×25 mm² up to 3×240 mm², plus 4-core and hybrid power/control constructions.

Key Advantages: Halogen-free & flame retardant • Withstands high mechanical stress from reeling • Excellent abrasion resistance in trailing operation • Suitable to 10 m water depth

Technical Summary & Specifications

ELECTRICAL

Rated Voltage: 0.6/1 (1.2) kV
Test Voltage: 2.5 kV
AC Test (control cores): 2 kV
Nominal Voltage U: 1,000 V

THERMAL

Max conductor temp: 90°C
Short circuit temp: 250°C
Fixed install: -40 to +80°C
Flexible install: -30 to +80°C

MECHANICAL

Torsional stress: ±50°/m
Tensile strength: 20 N/mm²
Travel speed (u/g reeling): up to 60 m/min
Bend radius: 4×D fixed / 8×D reeling

CHEMICAL

Halogen Free: ✓ Yes
Ozone Resistant: ✓ Yes
UV Resistant: ✓ Yes
Max water depth: 10 m

Standards: DIN EN 60228 / IEC 60228 / VDE 0295 (Conductor) • DIN VDE 0298-300 (Core identification) • IEC 60502-1 (Compound) • DIN VDE 0298-4 (Electrical parameters) • DIN EN 60332-1-2 / IEC 60332-1-2 (Fire performance)

Cable Construction

Conductor & Insulation

1. Conductor — finely stranded copper, bare, class 5
2. Core insulation — XLPE
3. Control core (signal/pilot)

Core Arrangement

4. Split earth conductor
5. Three main conductors laid-up together with split earth conductor and control cores in the interstices, very short length of lay

Sheath

6. Inner sheath — halogen-free polymer
7. Outer sheath — Polyurethane (PUR)

Core colors: brown, black, grey (main) | blue, white (control)

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Complete Technical Specifications — All 12 Configurations

TROMMELFLEX-M-PUR D2X11Y 0.6/1 kV

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Bending Radius, Moving (mm)	Conductor Resistance at 20°C (Ω/km)	Current Carrying Capacity (A)
3×25+3G6+2×1	6.2	22.5	24	1,130	1,500	192	0.780	131
3×35+3G6+2×1.5	7.8	26.5	28	1,530	2,100	224	0.554	162
3×50+3G10+2×1.5	9.6	30	32	2,160	3,000	256	0.386	202
3×70+3G16+2×1.5	11.1	35	37	3,050	4,200	296	0.272	250
3×95+3G16+2×1.5	12.6	39.5	42	3,690	5,700	336	0.206	302
3×120+3G25+2×1.5	14.8	44	46.5	4,810	7,200	372	0.161	352
3×150+3G25+2×1.5	16.0	49	52	5,780	9,000	416	0.129	404
3×185+3G35+2×1.5	17.7	53.5	56	7,300	11,100	448	0.106	461
3×240+3G50+2×1.5	20.2	61.5	64.5	9,600	14,400	516	0.0801	540
4×50	9.6	33	35	2,450	4,000	280	0.386	202
4×70	11.1	38.1	40.6	3,300	5,600	325	0.272	250
4G70+2×(10×2.5)+1×(8×1.5)C	11.1	62	66	5,300	5,600	528	0.272	250

Note: Configurations 1–9 are standard 3-phase constructions with split earth and control cores (3×[phase]+3G[earth]+2×[control]). Configurations 10–11 are 4-core power-only constructions (4×[phase]). Configuration 12 is a hybrid power + multi-pair control/instrumentation cable (4G70 power + 2×10-pair control bundle + 1×8-pair control bundle).

Applications

Application	Benefit
Underground Drilling Machines	High flexibility and torsional resistance for continuous reeling operation
Scoops / LHD Vehicles	Withstands frequent dynamic loading and abrasive trailing conditions
Tunnelling Equipment	Halogen-free, flame-retardant construction for confined-space safety
Underground Power Distribution	Reliable low-voltage power supply with integrated control cores

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 12 standard configurations are available ex-works with standard lead times.

Contact AnHui Feichun Special Cable Co., Ltd
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