PROTOLON (M) F-(N)TSWOEU

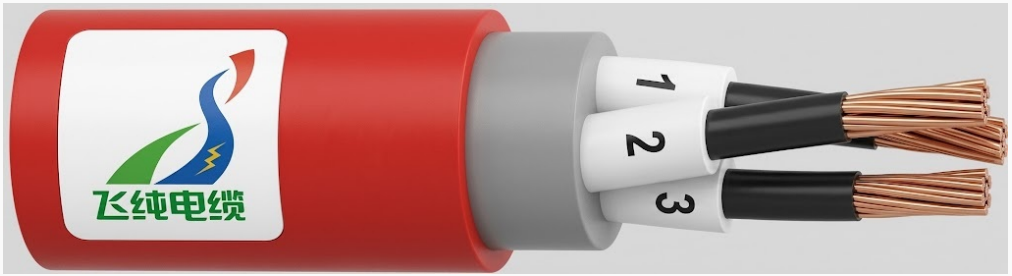
Medium Voltage Flexible Cable for Semi-Flexible Installation | 5 kV

AnHui Feichun Special Cable Co., Ltd

WhatsApp: +86 13855123218

feichuncables.com

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Flexible Cable for Semi-Flexible Installation

PROTOLON (M) F-(N)TSWOEU is designed for laying alongside conveyor belts (also for shiftable units) and on material handling equipment — even with continuous movement such as in cable booms or as connection between upper and lower car — and for connection of submersible pump units.

Total Configurations: 1 — a single standard construction, 3×70 mm², rated 1.8/3 (3.6) kV.

Key Advantages: Excellent sea water resistance • Rated for water depths up to 10 m • Oil, ozone & UV resistant • Flame retardant

Technical Summary & Specifications

ELECTRICAL

Rated Voltage U0/U (Um): 1.8/3 (3.6) kV
Test Voltage: 11 kV
Conductor: Finely stranded copper, bare, class 5

THERMAL

Max conductor temp: 90°C
Short circuit temp: 250°C
Fixed install: -40 to +80°C
Flexible install: -25 to +60°C

MECHANICAL

Torsional stress: ±100°/m
Tensile strength: 15 N/mm² static
Bend radius: 6×D fixed / 10×D flexible

CHEMICAL

Flame Retardant: ✓ EN/IEC 60332-1-2
Oil Resistant: ✓ acc. IEC/EN 60811-404
Ozone / UV: ✓ Resistant
Sea Water Resistance: Excellent
Max Water Depth: 10 m

Standards: DIN VDE 0250-813 • DIN VDE 0298-4 • DIN EN 60811-404 / IEC 60811-404 • DIN EN 50525-2-21 • DIN EN 60332-1-2 / IEC 60332-1-2

Cable Construction

Conductor & Insulation

1. Conductor — finely stranded copper, bare, class 5
2. Semi-conductive EPR
3. Core insulation — EPR rubber (PROTOLON HS Special compound 3G13)

Core Arrangement & Sheath

4. Three main conductors laid-up
5. Inner sheath — rubber, Special compound GM1b
6. Outer sheath — chlorinated polyethylene (CM/CPE), Special compound 5GM3

Complete Technical Specification

Basic Construction (mm²)	Conductor Ø (mm)	Cable Ø min (mm)	Cable Ø max (mm)	Cable Weight (kg/km)	Max. Tensile Strength (N)	Nominal Capacitance (nF/km)	Operation Inductance (mH/km)	Conductor Resistance at 20°C (Ω/km)	Current Carrying Capacity (A)
3×70	10.8	42.1	45.1	3,770	3,150	510	0.28	0.272	250

Applications & Ordering Information

Suitable for installation alongside conveyor belts, shiftable units, material handling equipment with continuous movement (e.g. cable booms, upper/lower car connections), and submersible pump units. For custom lengths, drum packaging, or technical consultation, please contact us directly via WhatsApp or visit our websites below.

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