



APPLICATION

Reeling cable for power supply with integrated fiber optics, for winding operation with tensile stress and/or torsional stress, for connection and control in lifting devices, hoisting plants and transporting machines for heavy mechanical load, including ERTG's (Electrified Rubber Tyred Gantry cranes). For use in dry, damp or wet rooms and in wet industrial conditions.

CHARACTERISTICS

Voltage Rating (Uo/U)

0.6/1kV

Temperature Rating

Fixed: -40°C to +80°C

Flexed: -25°C to +80°C

Minimum Bending Radius

Fixed: 4x overall diameter

Flexed: 5x overall diameter

Maximum Tensile Load

30 N/mm²

Travel Speed

In festoon: up to 180m/min horizontal / 120m/min vertical

CONSTRUCTION

Conductor

Class 5 stranded tinned copper conductor

Insulation

HEPR (Hard Ethylene Propylene Rubber)

Optical Fibre

Cores laid up around central support element

Inner Sheath

Rubber compound

Braiding

Anti-torsion textile braid embedded in sheath

Sheath

Rubber compound Type 5GM3/5GM5

Core Identification

Coloured cores according to VDE 0293-308 with green-yellow

Sheath Colour

Black or Yellow

STANDARDS

Based on DIN VDE 0250-814, DIN VDE 0250-1, DIN VDE 0298-3, DIN VDE 0472-501/502/503/508,

DIN VDE 0472-303/401/402/602/615, DIN VDE 0472-803/804, VDE 0482-332-1-2, HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1, EN 60228

Flame Retardant according to IEC/EN 60332-1-2

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km
		Minimum	Maximum	
3 + 2 + FO	35 + 16 / 2	35.7	38.7	2400
3 + 2 + FO	50 + 25 / 2	37.1	46.8	3200
3 + 2 + FO	70 + 35 / 2	42.5	53.5	4120
3 + 2 + FO	95 + 50 / 2	48.2	60.6	4990
3 + 2 + FO	120 + 70 / 2	51.6	64.9	6370
3 + 2 + FO	150 + 70 / 2	56.2	70.7	7480
3 + 2 + FO	185 + 95 / 2	63.3	79.4	9020
3 + 2 + FO	240 + 120 / 2	69.7	87.7	12320