



CABLE STRUCTURE

Conductor	Electrolytic, plain annealed copper wire Class 5 according to IEC 60228
Insulation	All cores are insulated with halogen free compound, based on polyester. In need cores are wrapped by PTFE to increase the abrasion resistivity.
Core Identification	Up to 5 cores: colored in accordance with DIN VDE 0293-308; From 6 cores: white cores with black numbers
Lay Up	Central Aramid strength member, cores laid up in concentric layers with shorth length of lay
Inner Sheath	Halogen Free, flame retardant Polyurethane compound
Reinforcement	Anti-twisting element - Aramid yarns braiding
Outer Sheath	Halogen Free, flame retardant Polyurethane compound
Color	Yellow, black or orange

STANDARDS & MAIN CHARACTERISTICS

Construction	Generally to IEC 60502 & VDE 0250
Electrical Tests	DIN VDE 0472-501, 502, 503, 508
Non-Electrical Tests	DIN VDE 0472-401, 402, 602, 303, 615
General Requirements	DIN VDE 0250-1 and IEC 60502
Flame Retardant	IEC 60332-1
Oil Resistant	HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

OPERATING CHARACTERISTICS

Rated Voltage	0,6 / 1 kV				
Max. Operating Ac Voltage	0,7 / 1.2 kV				
Max. Operating Dc Voltage	0,9 / 1.8 kV				
Ac Test Voltage	3,5 kV				
Min Bending Radius	6 x D (fixed application) 8 x D (mobile applications)				
Current Carrying Capacities	According to DIN VDE 0298-4				
Working Temperature	<table border="0"> <tr> <td>Fixed</td> <td>- 50 °C up to + 90 °C</td> </tr> <tr> <td>Mobile</td> <td>- 40 °C up to + 90 °C</td> </tr> </table>	Fixed	- 50 °C up to + 90 °C	Mobile	- 40 °C up to + 90 °C
Fixed	- 50 °C up to + 90 °C				
Mobile	- 40 °C up to + 90 °C				
Conductor Operating Temperature	+ 90 °C				
Conductor Short Circuit Temperature	+ 250 °C				
Max. Tensile Load On Conductor	30 N / mm ²				
Max. Torsion	±25°/m				
Travel Speed:					
In Festoon Systems	up to 240 m/min				
In Reeling Applications	up to 240 m / min. horizontal up to 180 N /mm vertical				

Application

For use as vertical reeling cable under high mechanical stresses, torsion, tension and torque. Mainly used for spreader reeling application A strength member has been integrated to increase tensile load, acceleration and speed. The special polyurethane compound jacket offers a very good protection against hydrolysis, solvents, alkalines and oils.



Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
18 x 2,5	22,0 - 26,0	1100
24 x 2,5	26,4 - 29,4	1400
30 x 2,5 (5 x 6 x 2,5)	30,2 - 34,2	1600
36 x 2,5 (6 x 6 x 2,5)	34,7 - 38,5	2080
36 x 2,5	30,2 - 33,0	1850
42 x 2,5 (7 x 6 x 2,5)	37,8 - 41,8	2280
44 x 2,5	32,5 - 35,5	1950
8 x (6 x 2,5)	42,7 - 45,1	2620
54 x 2,5 (9 x 6 x 2,5)	43,8 - 48,8	2800