



CABLE STRUCTURE

Conductor	Electrolytic, stranded, plain annealed copper wire Class 5 according to IEC 60228
Insulation	All cores are insulated with halogen free compound, based on polyester.
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 textile 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 - Textile 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
Ac Test Voltage	3,5 / kV
Max.operating Ac Voltage	0,7 / 1,2 kV
Max. Operating Dc Voltage	0,9 / 1,8 kV
Min Bending Radius	6 x D (fixed application) 8 x D (mobile application)
Current Carrying Capacity	According to DIN VDE 0298, Part 4
Working Temperature:	
Fixed	-50°C ... +90°C
Mobile	-40°C ... +90°C
Max. Tensile Load Of Cable	20 N / mm ²
Max. Torsion	±25°/m
Travel Speed	
In Festoon Systems	up to 200 m/min.
In Reeling Applications	up to 200 m/min. horizontal
Minimum distance for change of Direction	20 X D

Application

For use as drum reeling cable under high mechanical stresses, torsion, tension and torque Also suitable as vertical drum reeling cable under moderate mechanical stresses. 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)
4 x 1,5	10,0 - 11,4	146
5 x 1,5	10,6 - 11,8	172
7 x 1,5	12,1 - 13,5	220
12 x 1,5	15,4 - 17,0	356
18 x 1,5	16,9 - 18,4	472
24 x 1,5	19,0 - 20,9	595
30 x 1,5	21,5 - 23,0	740
42 x 1,5	25,0 - 28,5	932
4 x 2,5	11,1 - 12,3	202
5 x 2,5	11,8 - 13,0	228
7 x 2,5	13,5 - 14,7	316
12 x 2,5	18,5 - 20,5	552
18 x 2,5	19,2 - 20,4	664
24 x 2,5	21,2 - 23,6	884
30 x 2,5	25,4 - 28,2	1086
36 x 2,5	27,0 - 30,0	1400
4 x 4	12,2 - 13,6	280
4 x 6	13,3 - 14,9	370
4 x 10	17,4 - 18,9	610
4 x 16	20,0 - 22,1	852
4 x 25	22,9 - 25,3	1228
4 x 35	28,5 - 30,2	1760
5 x 4	13,1 - 14,5	324
5 x 6	16,4 - 17,6	476
5 x 10	18,7 - 20,5	724
5 x 16	21,7 - 24,2	1030