



CABLE STRUCTURE

Conductors	Electrolytic, stranded, plain annealed copper wire Class 5 according to IEC 60228
Insulation Lay Up	All cores are insulated with XLPE (Cross Linked Polyethylene) Central aramid (kevlar) strength member, cores laid up in concentric layers with shorth length of lay
Inner Sheath Reinforcement	Special extruded Polyurethane compound Anti-twisting element - textile braiding
Outer Sheath Color	Special extruded Polyurethane compound Yellow, black or orange

STANDARDS & MAIN CHARACTERISTICS

Construction	Generally to IEC 60502
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 application)
Current Carrying Capacity Working Temperature	VDE 0298 - 4
Fixed	- 40 °C up to + 80 °C
Mobile	- 30 °C up to + 80 °C
Conductor Operating Temperature	+ 90 °C
Conductor Short Circuit Temperature	+ 250 °C
Max. Tensile Load On Conductor	25 N/mm ²
Max. Torsion	±25°/m
Travel Speed	
In Festoon Systems	Up to 200 m/min
In Reeling Application	Up to 120 m/min horizontal

Application

For use as energy and control cable in festoon systems and suitable as drum reeling cable under high mechanical stresses, torsion, tension and torque. ÜNflex S'PUR cables can be used as power supply connections to all types of mobile equipment used in applications in harsh working environments - ergonomic handling systems. The special polyurethane compound jacket offers a very good protection against hydrolysis and oils



Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
4 x 16	20,50 ± 1,50	860
3 x 25 + 3G6 + 2 x 1,5	25,50 ± 1,50	1250
3 x 35 + 3G6 + 2 x 1,5	27,80 ± 1,50	1550
3 x 50 + 3G10 + 2 x 1,5	32,00 ± 2,0	2300
3 x 70 + 3G16 + 2 x 1,5	37,00 ± 2,0	3150
3 x 95 + 3G16 + 2 x 1,5	41,00 ± 2,5	3850
3 x 120 + 3G25 + 2 x 1,5	45,00 ± 2,5	5100
3 x 150 + 3G25 + 2 x 1,5	52,50 ± 2,5	6100
3 x 185 + 3G50 + 2 x 1,5	57,00 ± 2,5	7200
3 x 240 + 3G35 + 2 x 1,5	62,00 ± 2,5	8950