PRYSMIAN
CABLES & SYSTEMS

SPREADERFLEX

YSLTOE

Spreader Basket Cable

ENERGY

Technical Data

	Type	SPREADERFLEX
	Type designation	YSLTOE-J/-O
	Approvals/ standards	Based on DIN VDE 0250; GOST R
	Application	Feeder cable for load-lifting equipment, e.g. spreader with high mechanical stress in gravity-fed collector basket operation.
Electrical parameters	Rated voltage	Uo/U = 300/500 kV
	Maximum permissible operating voltage in AC systems	Uo/U = 318/550 kV
	Maximum permissible operating voltage in DC systems	Uo/U = 413/825 kV
	AC test voltage	2.0 kV, 5 min
	Current-carrying capacity	According to DIN VDE 0298, Part4
	Bus capability	With special bus elements: ASI-Bus, Profibus or use of fibre optics elements for trouble-free data transmission
Thermal parameters	Ambient temperature - Fully flexible operation - Fixed installation	 - 20 °C to + 60 °C - 20 °C to + 60 °C
	Maximum permissible operating temperature of the conductor	70 °C
	Maximum permissible short-circuit temperature of the conductor	150 °C
Mechanical parameters	Tensile load	increased tensile load through additional support elements (see chart)
	Torsional stresses	Corresponding to application, designed for best torsional properties
	Minimum bending radii (at the entry)	According to DIN VDE 0298, Part 3
	Travel speed - Hoist	 Up to 160 m/min
	Basket design	Dimensions depending on system (e.g. dependent on space requirements, hoisting height and speed, wind load)
Chemical parameters	Resistance to oil	DIN VDE 0473, Part 811-2-1, Para. 10
	Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture
Installation		Cable must be laid into the basket in a counter-clockwise direction. detailed installation instructions available upon request.

Design features

Type	SPREADERFLEX
Conductor (refer also to DIN VDE 0295)	bare Electrolytic copper, extremely fine stranded, class FS
Insulation (refer also to DIN VDE 0295)	PROTODUR Basic material PVC Insulation compound YI 2
Core identification	Optimal identification as a result of black insulation with light-printed numbers, protective-earth conductor green/ yellow
Core arrangement	Core assembly: cores laid-up into bundles Bundle assembly: bundles laid-up around the central support element
Support element	Aramide threads woven round lead ball cords, arranged centrally. The breaking load is rated to provide a safety factor of 5 when the cable is suspended vertically for 50 m.
Outer sheath (refer also to DIN VDE 0250 part 818)	Basic material PU Compound 11YM1 Colour: black
Marking	SPREADERFLEX YSLTOE-J (number of cores) x (cross-section)

Selection and ordering data

Number of cores and nominal cross-section	Order No.	Conductor diameter [mm]	Overall diameter of cable Min. value [mm]	Overall diameter of cable Max. value [mm]	Approx. net weight for 1000 m [kg/km]
YSLTOE-J control cables with integrated fibre optics					
30x2,5+6x1 LWL	5DE5 775	2,0	35,1	38,1	2300
32x2,5+4x3 LWL	5DE5 756	2,0	35,1	38,1	2360
36x2,5+6x1 LWL	5DE5 758	2,0	37,5	40,5	3060
42x2,5+6x1 LWL	5DE5 753	2,4	48,1	51,1	4150
52x2,5+2x3 LWL	5DE5 767	2,0	46,7	49,7	3460
32x3,5+4x1 LWL	5DE5 782	2,4	38,7	41,7	3330
YSLTOE-J control cables					
48x1	5DE5 797	1,5	31,6	33,1	1860
24x2,5	5DE5 725	2,0	28,1	31,1	1600
30x2,5	5DE5 798	2,0	31,6	33,1	2010
36x2,5	5DE5 788	2,0	35,1	36,5	2330
42x2,5	5DE5 790	2,0	37,5	38,8	3020
48x2,5	5DE5 760	2,0	42,3	43,3	3420
54x2,5	5DE5 767	2,0	46,7	47,5	3460
20x3,5	5DE5 777	2,4	30,3	33,3	2000
24x3,5	5DE5 778	2,4	31,5	33,0	2060
30x3,5	5DE5 780	2,4	34,9	37,9	2610
36x3,5	5DE5 781	2,4	38,7	39,9	3300
42x3,5	5DE5 785	2,4	43,4	44,4	4170
7x4	5DE5 768	2,5	18,2	20,2	750
YSLTOE-J control cables with bus element					
24x2,5+1x(2x1)C	5DE5 754	2,0	31,6	34,6	2090
24x2,5+4x(2x1)C	5DE5 761	2,0	42,1	45,1	3100
36x2,5+2x(2x1)C	5DE5 757	2,0	42,3	45,3	3700
YSLTOE-O AWG control cables with integrated fibre optics					
20x12AWG+4x1 LWL	5DE5 776	2,4	32,0	35,0	2330
32x12AWG+4x1 LWL	5DE5 786	2,4	38,9	41,9	3740
36x12AWG+6x1 LWL	5DE5 771	2,4	43,4	46,4	4740
38x12AWG+4x1 LWL	5DE5 773	2,4	43,4	46,4	4780
YSLTOE-O AWG control cables					
20x12AWG	5DE5 794	2,4	30,3	33,3	1910
24x12AWG	5DE5 795	2,4	32,0	35,0	2470
30x12AWG	5DE5 793	2,4	34,9	37,9	2610
36x12AWG	5DE5 770	2,4	38,9	41,9	3830
36x12AWG	5DE5 796	2,4	38,9	41,9	3620
42x12AWG	5DE5 792	2,4	43,4	46,4	4150
YSLTOE-O AWG control cables with bus element					
20x12AWG+2x(4x16AFS)	5DE5 784	2,4	37,3	40,3	3150
28x12AWG+4x16AWG	5DE5 783	2,4	38,9	41,9	3050
28x12AWG+8x16AWG	5DE5 774	2,4	38,9	41,9	3760
Special designs upon request!					