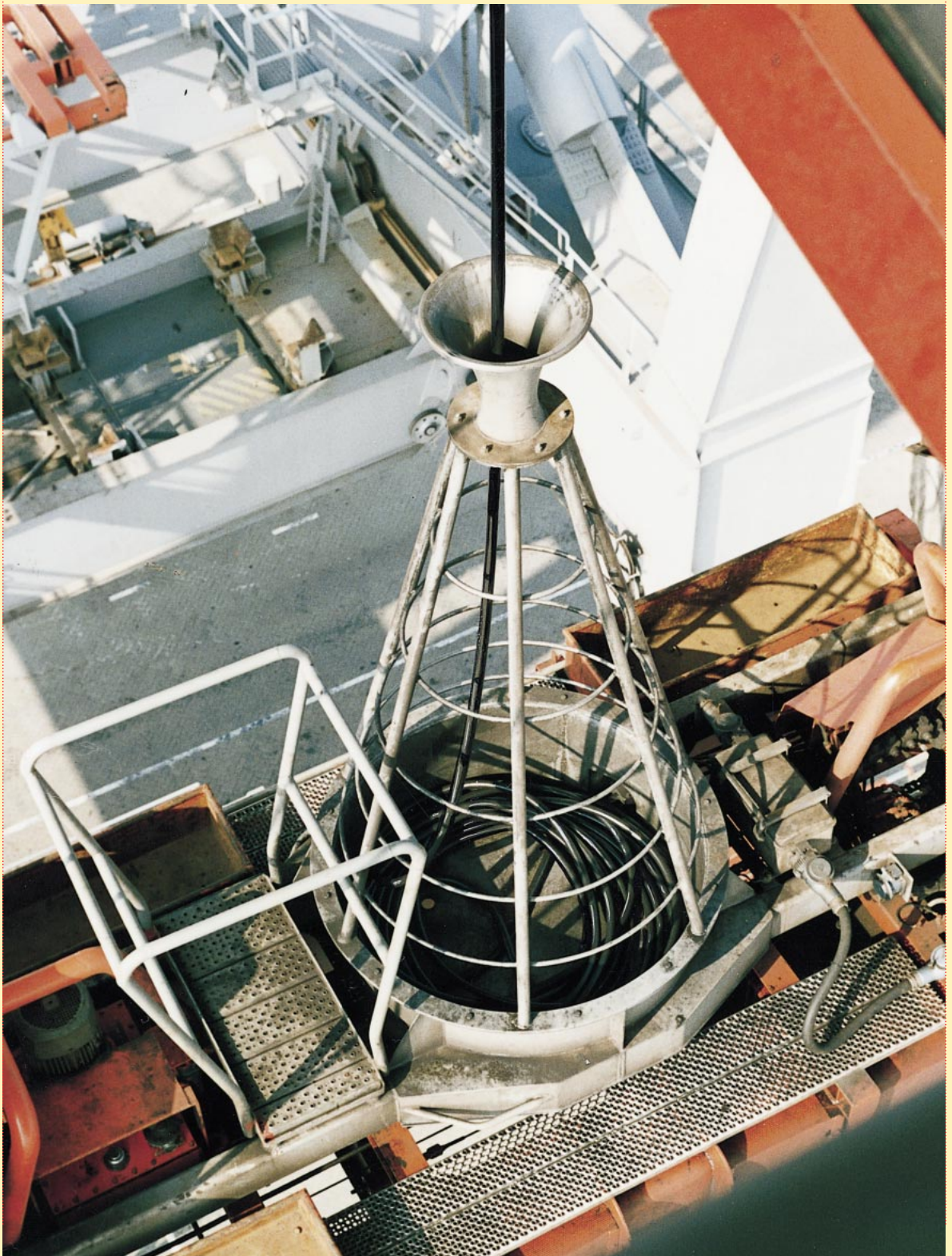


Cables for Gravity-Fed Collector Basket Operation



SK12-053.tif



Selection and dimensioning criteria

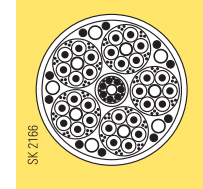
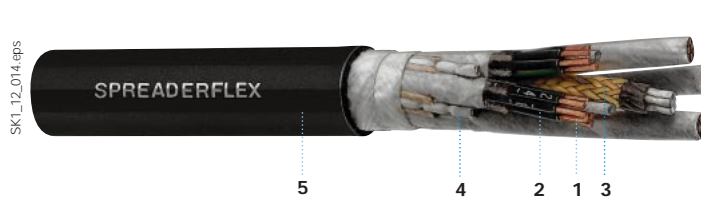
Refer to Section 4 for further details



	Type	SPREADERFLEX	Page	4/2
	Type designation	YSLTO	Page	4/3
	Approvals/standards	Based on DIN VDE 0250	Pages and	4/4 4/5
	Application	Feeder cable for load-lifting equipment, e.g. spreader with high mechanical stress in gravity-fed collector basket operation	Pages and	4/6 4/7
Electrical parameters	Rated voltage	$U_0/U = 300/500$ V	Pages to	4/8
	Maximum permissible operating voltage in AC systems	$U_0/U = 318/550$ V		4/13
	Maximum permissible operating voltage in DC systems	$U_0/U = 413/825$ V		
	AC test voltage	2 kV over 5 min		
	Current-carrying capacity	According to DIN VDE 0298, Part 4		
Thermal parameters	Ambient temperature		Pages and	4/14
	<ul style="list-style-type: none"> Fully flexible operation Fixed installation 	- 20 °C to + 60 °C - 20 °C to + 60 °C		4/15
	Maximum permissible operating temperature of the conductor	70 °C		
	Maximum permissible short-circuit temperature of the conductor	150 °C		
Mechanical parameters	Tensile load	Up to 15 N/mm ² , refer also to "Support element" under design features	Page	4/16
	Torsional stresses	Corresponding to application, designed for best torsional properties	Page	4/16
	Minimum bending radii (at the entry)	According to DIN VDE 0298, Part 3	Page	4/17
	Travel speed		Page	4/18
	<ul style="list-style-type: none"> Hoist Basket design	Up to 160 m/min Dimensions depending on system (e.g. dependent on space requirements, hoisting height and speed, wind load)		
Chemical parameters	Resistance to oil	Given to DIN VDE 0473, Part 811-2-1, Para. 10	Page	4/21
	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		

Cables for Gravity-Fed Collector Basket Operation

- 1 Conductor
- 2 Insulation
- 3 Support element
- 4 Lead ball cords
- 5 Outer sheath



Design features

Refer to Section 4 for further details →

Type	SPREADERFLEX	Page	4/2
Conductor (refer also to DIN VDE 0295)	Electrolytic copper, not tinned extremely finely stranded, class "FS"	Pages and	4/22 4/23
Insulation (refer also to DIN VDE 0207, Part 4)	PROTODUR Basic material PVC Insulation compound YI 2	Pages to	4/24 4/26
Core identification	Black with white numbering Protective-earth conductor: green/yellow		
Core arrangement	Bundle assembly: bundles laid-up around the central support element: 10 x D (D = diameter of the bundle assembly) Core assembly: cores laid-up into bundles: 15 x d (d = diameter of the bundle)	Pages and	4/28 4/29
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	Page	4/30
Outer sheath (refer also to DIN VDE 0250, Part 818)	Basic material PU Compound 11YM1 Colour: black	Pages to	4/24 4/26
Marking	SPREADERFLEX YSLTÖ - J (number of cores) x (cross-section)	Page	4/31

SPREADERFLEX
YSLTÖ
Cables for Gravity-Fed Collector Basket Operation

Selection and ordering data

Number of cores and nominal cross-section mm ²	Order No.	Conductor diameter (guidance value) mm	Overall diameter of cable		Approx. net weight for 1000 m kg
			Min. value (guidance value) mm	Max. value (guidance value) mm	

YSLTÖ - J

48 x 1 *	5DE5 797	1.5	31.6	34.6	2 250
30 x 2.5 *	5DE5 798	2.6	31.6	34.6	2 360
36 x 2.5 *	5DE5 788	2.6	35.1	38.1	2 800
42 x 2.5 *	5DE5 790	2.6	37.5	40.5	3 530
20 x 3.5	5DE5 777	2.4	30.3	33.3	2 000
24 x 3.5	5DE5 778	2.4	32.0	35.0	2 510
30 x 3.5	5DE5 780	2.4	34.9	37.9	2 970
36 x 3.5	5DE5 781	2.4	38.9	41.9	3 950
42 x 3.5 *	5DE5 785	2.4	43.4	46.4	5 020

YSLTÖ - J with integrated fibre-optics

(For details of fibre-optics, please refer to OPTOFLEX 62.5/125, page 2/24)

32 x 3.5+4 x 1LWL	5DE5 782	2.4	38.9	41.9	3 750
-------------------	-----------------	-----	------	------	-------