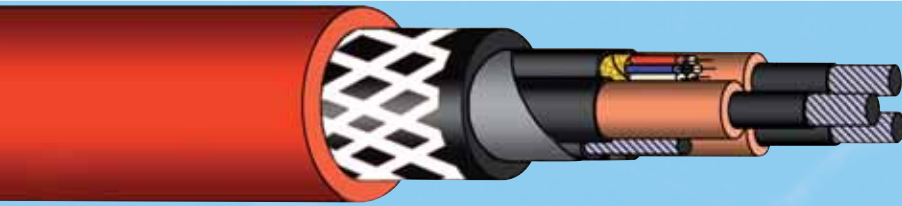


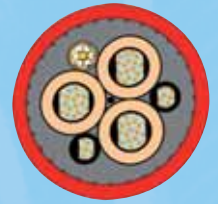


FLEXIDRUM® MEDIUM (N) TSCGEWÖU OPTICAL FIBER

From 3,6/6 Kv to 12/20 Kv, with antitwisting protection and optical element



**New version!
Reduced weight
and diameter**



Construction:

Phase unit Conductor:	flexible tinned copper class 5, acc. to DIN VDE 0295
Conductor screen:	semi-conducting compound
Insulation:	EPR compound 3GI3
Core screen:	semi-conducting compound
Earth Conductor:	flexible tinned copper flexible class 5, acc. to DIN VDE 0295
Fibre optics:	6-12-18 fibre-optics in a structur consisting by 6 free tubes (1,2 or 3 fibres per tube)
Stranding:	Phase unit laid up with earth cores in the interstices
Inner sheath:	EPR compound 5GM3
Anti-twisting braid:	anti-twisting braid of synthetic yarns
Outer sheath:	RED PCP compound 5GM5

Technical data:

Rated voltage:	Uo/U Kv	3,6/6	6/10	8,7/15	12/20
Max oper. voltage:	Kv	7,2	12	18	24
Test voltage:	Kv	11	17	24	29
Min. Bending radius:					
Fixed installation:		6 x d			
On drums:		12 x d			
On deflect. pulley:		15 x d			
Free movement:		12 x d			
Temperature range					
Fixed installation:		- 40°C + 80°C			
Flexible application:		- 30°C + 60°C			
Minimum distance for change of direction:		20 x d			
Torsional stress:		± 25°/m			
Max travel speed					
Operating:		up to 180 m/min.			
Rewinding with drum car:		100 m/min			

Applications:

- ▶ **Power supply to mobile units with high risk of mechanical damage.**
It is designed to work with forced guidance systems with defection on different floors and equipment with reel axis in direction of travel
- ▶ **Possible cold version - 50°C**

OPTICAL PARAMETERS

Trasmission data of the fiber-optics	Graded-index fibre 50/125	Graded-index fibre 62.5/125	Monomode fibre E9/125
Max attenuation at wavelength 850 m	2,8 dB/km	3,3 dB/km	-
Max attenuation at wavelength 1300 m	0,8 dB/km	0,4 dB/km	0,9 dB/km
Max attenuation at wavelength 1550 m	-	-	0,3 dB/km
Bandwidth at 850 nm	>400 MHz	>400 MHz	-
Bandwidth at 1300 nm	>1200 MHz	>600 MHz	-
Numerical aperture	0,200+/-0,200	0,275+/-0,02	0,14+/-0,02
Chromatic dispersion at 1300 nm	-	-	<3,5 ps/nm km
Chromatic dispersion at 1550 nm	-	-	<3,5 ps/nm km

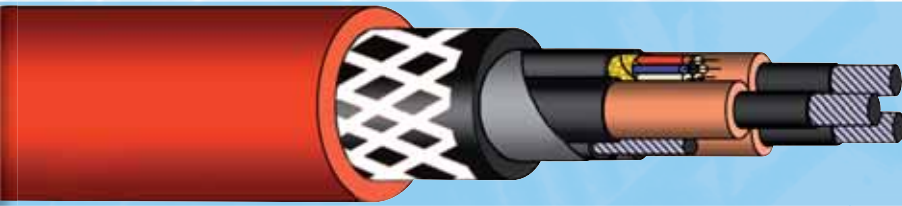
Uo/U (Um) 3,6/6(7,2) kV

Part no.	No. of cores x cross-section n x mm²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07900363XLWL	3x25+2x25/2+FO	40,3	960	2495	1500	4
07900364XLWL	3x35+2x25/2+FO	42,7	1248	2990	2100	2
07900365XLWL	3x50+2x25/2+FO	45,5	1680	3520	3000	1
07900366XLWL	3x70+2x35/2+FO	49,6	2352	4518	4200	2/0
07900367XLWL	3x95+2x50/2+FO	54,7	3216	5590	5700	3/0
07900368XLWL	3x120+2x70/2+FO	58,9	4128	6960	7200	4/0
07900369XLWL	3x150+2x70/2+FO	64,7	4992	8200	9000	250 MCM
07900370XLWL	3x185+2x95/2+FO	68,4	6240	9770	11100	350 MCM
07900371XLWL	3x240+2x120/2+FO	78,1	8064	12790	14400	450 MCM

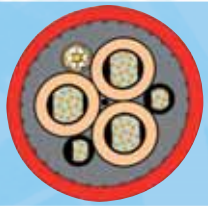


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Uo/U (Um) 6/10(12) kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07901363XLWL	3x25+2x25/2+FO	41,0	960	2550	1500	4
07901364XLWL	3x35+2x25/2+FO	43,5	1248	3070	2100	2
07901365XLWL	3x50+2x25/2+FO	46,3	1680	3600	3000	1
07901366XLWL	3x70+2x35/2+FO	50,3	2352	4584	4200	2/0
07901367XLWL	3x95+2x50/2+FO	55,5	3216	5690	5700	3/0
07901368XLWL	3x120+2x70/2+FO	59,6	4128	7050	7200	4/0
07901369XLWL	3x150+2x70/2+FO	65,3	4992	8834	9000	250 MCM
07901370XLWL	3x185+2x95/2+FO	69,0	6240	9840	11100	350 MCM
07901371XLWL	3x240+2x120/2+FO	78,8	8064	12890	14400	450 MCM

Uo/U (Um) 8,7/15(18) kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07902363XLWL	3x25+2x25/2+FO	48,2	960	2850	1500	4
07902364XLWL	3x35+2x25/2+FO	47,0	1248	3404	2100	2
07902365XLWL	3x50+2x25/2+FO	49,8	1680	3970	3000	1
07902366XLWL	3x70+2x35/2+FO	55,1	2352	5140	4200	2/0
07902367XLWL	3x95+2x50/2+FO	59,0	3216	6125	5700	3/0
07902368XLWL	3x120+2x70/2+FO	64,9	4128	7786	7200	4/0
07902369XLWL	3x150+2x70/2+FO	69,0	4992	8830	9000	250 MCM
07902370XLWL	3x185+2x95/2+FO	72,0	6240	10268	11100	350 MCM
07902371XLWL	3x240+2x120/2+FO	80,7	8064	13207	14400	450 MCM

Uo/U (Um) 12/20(24) kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07903363XLWL	3x25+2x25/2+FO	49,5	960	3380	1500	4
07903364XLWL	3x35+2x25/2+FO	53,4	1248	4095	2100	2
07903365XLWL	3x50+2x25/2+FO	57,2	1680	4675	3000	1
07903366XLWL	3x70+2x35/2+FO	60,3	2352	5807	4200	2/0
07903367XLWL	3x95+2x50/2+FO	65,7	3216	7040	5700	3/0
07903368XLWL	3x120+2x70/2+FO	70,0	4128	8530	7200	4/0
07903369XLWL	3x150+2x70/2+FO	75,9	4992	9935	9000	250 MCM
07903370XLWL	3x185+2x95/2+FO	79,0	6240	11395	11100	350 MCM
07903371XLWL	3x240+2x120/2+FO	84,6	8064	13915	14400	450 MCM

Other construction and sizes are available on request

Nominal cross section mm ²	Max resistance		Reactance at 50 Hz for nominal voltage			
	at 20°C Ohm/km	A.C. at 90°C Ohm/km	3,6/6 Ohm/km	6/10 Ohm/km	8,7/15 Ohm/km	12/20 Ohm/km
25	0,780	0,995	0,106	0,107	0,114	0,123
35	0,554	0,707	0,100	0,101	0,107	0,116
50	0,386	0,493	0,095	0,097	0,102	0,110
70	0,272	0,348	0,090	0,092	0,097	0,104
95	0,206	0,264	0,087	0,088	0,093	0,099
120	0,161	0,207	0,084	0,085	0,089	0,095
150	0,129	0,167	0,082	0,083	0,087	0,092
185	0,106	0,139	0,080	0,081	0,085	0,090
240	0,0801	0,107	0,079	0,079	0,083	0,087

Correction factors for ambient temperature other than 30°C							
°C	20	25	30	40	45	50	55
K	1,1	1,05	0,95	0,89	0,84	0,77	0,71