



## FLEXIDRUM® MEDIUM PUR OPTICAL FIBER



**Mining excavator**

### Construction:

<b>Conductor:</b>	flexible red copper class 5, acc. to IEC 60228
<b>Insulation:</b>	special EPR compound
<b>Inner sheath:</b>	PUR
<b>Supporting screen:</b>	high-tech yarns
<b>Optical fibres element:</b>	6 fiber optics, multimode 62.5/125 µm
<b>Outer sheath:</b>	RED, special PUR



### Technical data:

<b>Temperature range</b>	
Fixed installation:	- 40°C + 80°C
Flexible installation:	- 25°C + 80°C
<b>Nominal voltage:</b>	3,6/6 kV until 12/20 kV
<b>Max permissible temperature on conductor:</b>	+ 90°C
<b>Max permissible temperature on short circuit:</b>	+ 250°C
<b>Tensile load:</b>	25 N/mm <sup>2</sup>
<b>Min. Bending radius: (fixed):</b>	6 x d
for repeated winding action (flexible):	10 x d
guided on deflection pulleys (flexible):	15 x d
<b>Fire performance:</b>	flame retardant acc. to IEC 60332-1
<b>Max Speed:</b>	120 m/min. Please inquire for higher speeds
<b>Oil resistant:</b>	very good
<b>Weather resisatnce:</b>	outdoor using, resistant to ozone moisture, water and UV

### Outstanding features:

- Possible without anti-twisting reinforcement
- small outer diameter and light weight
- for SPEED and MINIMUM BENDING RADIUS see pages 1,2,3/5,6 of catalogue

Part no.	No. of cores x cross-section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
<b>3,6/6 (7,2) kV</b>						
07940663	3x25+3x25/2+LWL	35,0	960	1900	2500	4
07940664	3x35+3x25/2+LWL	39,5	1248	2300	3250	2
07940665	3x50+3x25/2+LWL	42,5	1680	2860	4375	0
07940666	3x70+3x35/2+LWL	46,5	2352	3800	6125	2/0
07940667	3x95+3x50/2+LWL	51,2	3216	4700	8375	3/0
07940668	3x120+3x70/2+LWL	55,7	4128	5900	10750	4/0
07940669	3x150+3x70/2+LWL	59,5	4992	6950	13000	250 MCM
07940670	3x185+3x95/2+LWL	-	6240	-	16250	350 MCM
07940671	3x240+3x120/2+LWL	-	8064	-	21000	450 MCM
07940672	3x300+3x150/2+LWL	-	10080	-	26250	600 MCM
<b>6/10 (12) kV</b>						
07941063	3x25+3x25/2+LWL	35,0	960	1900	2500	4
07941064	3x35+3x25/2+LWL	39,5	1248	2300	3250	2
07941065	3x50+3x25/2+LWL	42,5	1680	2860	4375	0
07941066	3x70+3x35/2+LWL	46,5	2352	3800	6125	2/0
07941067	3x95+3x50/2+LWL	51,2	3216	4700	8375	3/0
07941068	3x120+3x70/2+LWL	55,7	4128	5900	10750	4/0
07941069	3x150+3x70/2+LWL	59,5	4992	6950	13000	250 MCM
07941070	3x185+3x95/2+LWL	-	6240	-	16250	350 MCM
07941071	3x240+3x120/2+LWL	-	8064	-	21000	450 MCM
07941072	3x300+3x150/2+LWL	-	10080	-	26250	600 MCM

Part no.	No. of cores x cross-section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
<b>8,7/15 (18) kV</b>						
07941563	3x25+3x25/2+LWL	35,0	960	1900	2500	4
07941564	3x35+3x25/2+LWL	39,5	1248	2300	3250	2
07941565	3x50+3x25/2+LWL	42,5	1680	2860	4375	0
07941566	3x70+3x35/2+LWL	46,5	2352	3800	6125	2/0
07941567	3x95+3x50/2+LWL	51,2	3216	4700	8375	3/0
07941568	3x120+3x70/2+LWL	55,7	4128	5900	10750	4/0
07941569	3x150+3x70/2+LWL	59,5	4992	6950	13000	250 MCM
07941570	3x185+3x95/2+LWL	-	6240	-	16250	350 MCM
07941571	3x240+3x120/2+LWL	-	8064	-	21000	450 MCM
07941572	3x300+3x150/2+LWL	-	10080	-	26250	600 MCM
<b>12/20 (24) kV</b>						
07942063	3x25+3x25/2+LWL	45,5	960	2650	2500	4
07942064	3x35+3x25/2+LWL	46,0	1248	2900	3250	2
07942065	3x50+3x25/2+LWL	47,2	1680	3300	4375	0
07942066	3x70+3x35/2+LWL	51,5	2352	4300	6125	2/0
07942067	3x95+3x50/2+LWL	54,7	3216	5100	8375	3/0

Other construction and sizes are available on request