

Customized cables

Data / POF cables

POF-LWL and hybrid cables for data transmission



Construction:	2 x POF + 10 x 0,50 mm ²	4 x POF + 19 x 1,00 mm ²	6 x POF black	6 x POF coloured	8 x POF
Conductor:	bare copper strands, fine wires acc. to IEC 60228, VDE 0295		---		
POF: polymer optical fibre	blue, red	black cores with consecutive numbers in white 1-4	black cores with consecutive numbers in white 1-6	black, blue, red, white, green, orange	black cores with consecutive numbers in white 1-8
Insulation copper conductors:	YA, thermoplastic material, TI2 acc. to EN 50363-3 + VDE 0207-363-3		---		
Colour code copper conductors:	0,50 mm ² : black cores with consecutive numbers in white 1-10 without green-yellow earth wire	1,00 mm ² : black cores with consecutive numbers in white 1-18 without green-yellow earth wire	---		
Stranding:	POF and cores in layers		POF in layers with non-woven tape wrapping		
Wrapping:	---	non-woven tape	---		
Sheath material:	YM, thermoplastic material, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1				thermoplastic material
Sheath colour:	black (RAL 9005)				

Technical data:	2 x POF + 10 x 0,50 mm ²	4 x POF + 19 x 1,00 mm ²	6 x POF black	6 x POF coloured	8 x POF
Peak operating voltage:	max. 350 V		---		
Testing voltage:	core/core 1500 V		---		
Min. bending radius:	7,5 x d				
Temperature range fixed laying: flexible application:	-30/+70 °C -5/+70 °C				
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2				
Oil resistance:	acc. to internal standard				
Absence of harmful substances:	acc. to RoHS directive of the European Union				

item no.	no. of cores	no. of POF	nominal cross-section mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km	ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km
	10	2	0,50	9,5	48,0	121	39,0
	19	4	1,00	14,9	182,4	293	19,5
on request		6		8,7		70	
		8		10,1		93	

Other dimensions and colours are possible on request.

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Application: Good electromagnetic characteristics signal transmission for installation in switch boxes and wind energy plants. The copper cable is used for the transmission of the temperature signals that are used for the control of the operating temperature with the help of a resistance thermometer.

