

FMD910 Data cables



- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- UV-resistance
- Notch-resistant
- Resistant to hydrolysis and microbes
- PVC and halogen-free



Dynamic Information

	Min. bending radius	Moving in cable carriers	10 x d
		Flexible moving	8 x d
		Fixed installation	5 x d
	Temperature	Moving in cable carriers	-25°C to +80°C
		Flexible moving	-40°C to +80°C
		Fixed installation	-50°C to +80°C
	v max.	Unsupported	3 m/s
		Gliding	2 m/s
	a max.	20 m/s ²	
	Travel distance	Unsupported travels and up to 50 m for gliding applications	













Cable structure

	Conductor	Fine bare copper stranded wires with high flexibility design
	Conductor insulation	Mechanically high-quality TPE mixture.
	Conductor construction	The individual cores are wound in layers with a short pitch length.
	Color code	Color code in accordance with DIN 47100
	Intermediate layer	Foil taping over the outer layer.
	Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 %
	Outer jacket	Low-adhesion mixture on the basis of PUR, adapted to suit the requirements in cable carriers (following DIN EN 50363-10-2). Color: Grey RAL 7001

Electrical Information

	Nominal voltage	U ₀ /U: 300/300 V (following VDE0298-3)
	Test voltage	1500 V (following EN50395)

Properties and approvals

	UV-resistance	Medium
	Hydrolysis-resistance	High
	Cold-resistant	-50°C
	Oil resistance	Oil-resistant (following IEC60811-404, tested by SGS), bio-oil-resistant (following VDMA24568, tested by SGS)
	Flame resistance	According to IEC 60332-1-2, VW-1, FT1
	Halogen-free	Following IEC60754
	REACH	According to the regulation (EC) No. 1907/2006 (REACH)
	EAC	Certificate No. KG 417/043.CN.02.00249
	Lead-free	Following 2015/863/EU (RoHS-II Tested by SGS)
	Cleanroom	Following ISO 14644-1
	CE	Following 2014/35/EU
	UL	Following UL20233, 300V, 80°C

Guaranteed service life

Double strokes	5 million times		7.5 million times		10 million times	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-25/-15	12.5	15	13.5	16	14.5	17
-15/+70	10	12.5	11	13.5	12	14.5
+70/+80	12.5	15	13.5	16	14.5	17

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Part No.	Number of cores and conductor nominal cross-section [mm]	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
FMD910.01.04	(4×0.14)C	5.5	15	39
FMD910.01.07	(7×0.14)C	6.5	24	54
FMD910.01.08	(8×0.14)C	7	26	64
FMD910.01.14	(14×0.14)C	7.5	41	79
FMD910.01.18	(18×0.14)C	8	51	97
FMD910.01.25	(25×0.14)C	8.5	66	101
FMD910.02.03	(3×0.25)C	5.5	18	41
FMD910.02.04	(4×0.25)C	6	22	45
FMD910.02.05	(5×0.25)C	6	25	50
FMD910.02.07	(7×0.25)C	7	33	65
FMD910.02.08	(8×0.25)C	7	39	72
FMD910.02.14	(14×0.25)C	8	60	103
FMD910.02.18	(18×0.25)C	9	71	122
FMD910.02.25	(25×0.25)C	10.5	97	152
FMD910.03.03	(3×0.34)C	5	25	47
FMD910.03.04	(4×0.34)C	5.5	30	54
FMD910.03.05	(5×0.34)C	6	34	60
FMD910.03.07	(7×0.34)C	6.5	45	84
FMD910.03.14	(14×0.34)C	8	74	126
FMD910.03.18	(18×0.34)C	8.5	91	156

Note: The outer diameters are reference values.

G: With green-yellow earth core

x: Without earth core