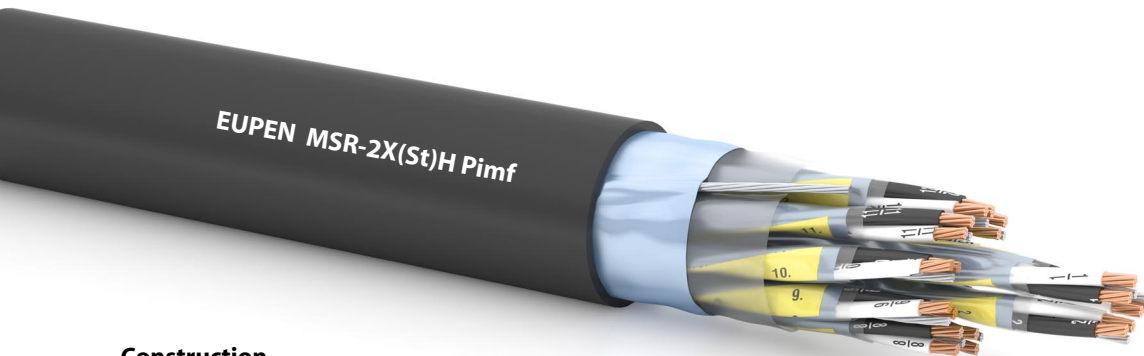


MSR-2X(St)H Pimf

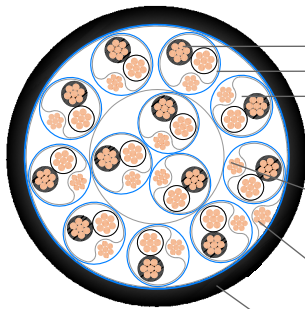
1/2

Reference standard: EN 50288-7

XLPE insulated, pair twisted, individual & overall screened, unarmoured, halogen-free instrumentation cable



Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: pairs
 colour identification: - insulation: BLACK/WHITE, each core numbered
 - additional black numbered yellow tape above each individual screened pair
4. Individual screening: laminated Alu/PET tape (9µm Alu/12µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30mm)
 Cabling elements assembled in concentric layers
5. Overall screening: laminated Alu/PET tape (9µm Alu/12µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30mm)
6. Outer sheath: halogen-free, fire-retardant polymer compound
 Outer sheath color: black or blue or according to customer specification
 Outer sheath marking: EUPEN MSR-2X(St)H Pimf 12x2x1,0mm² 300V
 + year + meter-marking
 or according to customer specification

Electrical Properties

Voltage rating (V)	300 V					
	0,5	0,75	1,0	1,3	1,5	2,5
Conductor cross-section (mm ²)	≤36,7	≤25,0	≤18,5	≤14,2	≤12,3	≤7,56
Conductor resistance @ 20 °C (Ω/km)	<150	<150	<150	<150	<150	<150
Mutual capacitance (nF/km)	<25	<25	<25	<40	<40	<60
L/R ratio (µH/Ω)	1000					
Test voltage core/core (V _{ac})	1000					
Test voltage core/screen (V _{ac})	1000					
Insulation resistance @ 20 °C (MΩ*km)	>5000					

Laying conditions

Operating temperature	-30 °C to +90 °C
Laying temperature	-5 °C to +50 °C
Min. bending radius	7,5 x outer diameter

Fire behaviour

Fire propagation	IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60332-3-24 Cat. C
Smoke density	IEC 61034-1+2
Corrosivity of combustion gas	IEC 60754-2
Toxicity of combustion gas	NF X 70-100

Application

Transmission of analog and digital signals for indoor and outdoor (in suitable cable trays) applications where improved fire behaviour is requested.

**MSR-2X(St)H Pimf**

2/2

Number of pairs	Insulation thickness Minimum mm	Outer sheath thickness Nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 0,5 mm² / 7				
2	0,26	0,9	9,3	95
4	0,26	1,0	10,8	143
8	0,26	1,1	14,4	247
12	0,26	1,2	17,0	349
16	0,26	1,2	18,8	448
24	0,26	1,4	23,2	631
Cross section 0,75 mm² / 7				
2	0,26	1,0	10,2	117
4	0,26	1,0	11,7	171
8	0,26	1,1	15,7	298
12	0,26	1,2	18,5	425
16	0,26	1,3	20,7	550
24	0,26	1,4	25,4	776
Cross section 1,0 mm² / 7				
2	0,26	1,0	10,9	138
4	0,26	1,0	12,5	199
8	0,26	1,2	17,1	361
12	0,26	1,3	20,1	516
16	0,26	1,3	22,1	650
24	0,26	1,5	27,7	944
Cross section 1,3 mm² / 7				
2	0,26	1,0	11,6	161
4	0,26	1,1	13,6	237
8	0,26	1,2	18,3	422
12	0,26	1,3	21,4	585
16	0,26	1,4	24,0	775
24	0,26	1,6	30,0	1128
Cross section 1,5 mm² / 7				
2	0,35	1,0	12,7	180
4	0,35	1,1	14,9	275
8	0,35	1,3	20,4	498
12	0,35	1,4	23,8	690
16	0,35	1,5	26,7	916
24	0,35	1,7	33,4	1328
Cross section 2,5 mm² / 7				
2	0,35	1,1	14,3	240

All information given is indicative only and not binding and can be subject to change without notice.