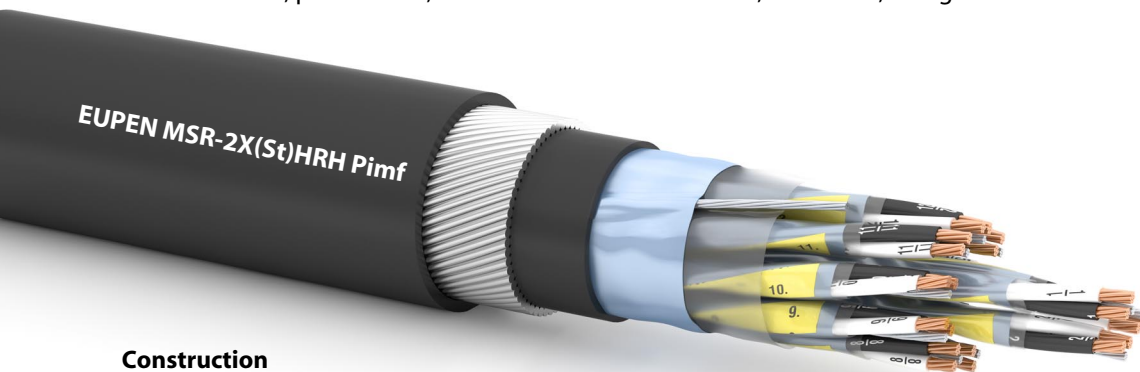


MSR-2X(St)HRH Pimf

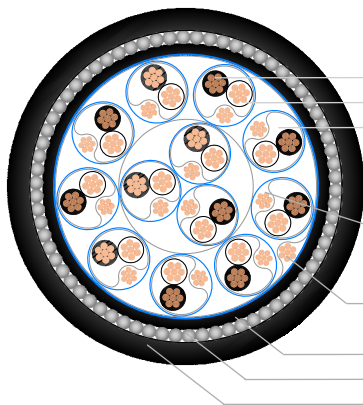
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Reference standard: EN 50288-7

XLPE insulated, pair twisted, individual & overall screened, armoured, 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 (9 µm Alu/12 µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30 mm)
 Cabling elements assembled in concentric layers
5. Overall screening: laminated Alu/PET tape (9 µm Alu/12 µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30 mm)
6. Inner sheath: halogen-free, fire-retardant polymer compound
7. Armoring: one layer of galvanized steel wires
8. 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)HRH Pimf 12x2x1,0 mm² 300 V
 + 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})	>5000					
Insulation resistance @ 20 °C (MΩ*km)						

Laying conditions

Operating temperature	-30 °C to +90 °C
Laying temperature	-5 °C to +50 °C
Min. bending radius	10 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.
 With improved fire behaviour and suitable for strong mechanical requirements.

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

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Number of pairs	Insulation thickness Minimum mm	Inner sheath thickness Nominal mm	Diameter over inner sheath approx. mm	Steel wire armour diameter Nominal mm	Outer sheath thickness Nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 0,5 mm² / 7							
2	0,26	0,8	8,9	0,9	1,4	13,5	334
4	0,26	0,8	10,2	0,9	1,4	14,8	404
8	0,26	1,0	14,0	0,9	1,5	18,8	609
12	0,26	1,0	16,4	0,9	1,5	21,2	759
16	0,26	1,0	18,2	1,25	1,6	23,9	1054
24	0,26	1,0	22,4	1,25	1,7	29,1	1392
Cross section 0,75 mm² / 7							
2	0,26	0,8	9,6	0,9	1,4	14,2	364
4	0,26	0,8	11,1	0,9	1,4	15,7	452
8	0,26	1,0	15,3	0,9	1,5	20,1	688
12	0,26	1,0	17,9	1,25	1,6	23,6	1018
16	0,26	1,0	19,9	1,25	1,6	26,4	1222
24	0,26	1,1	24,8	1,25	1,8	31,7	1640
Cross section 1,0 mm² / 7							
2	0,26	0,8	10,3	0,9	1,4	14,9	404
4	0,26	1,0	12,3	0,9	1,4	16,9	519
8	0,26	1,0	16,5	0,9	1,5	21,3	771
12	0,26	1,0	19,3	1,25	1,6	25,0	1150
16	0,26	1,0	21,5	1,25	1,7	28,2	1394
24	0,26	1,1	26,9	1,25	1,8	33,8	1863
Cross section 1,3 mm² / 7							
2	0,26	0,8	11,0	0,9	1,4	15,6	441
4	0,26	1,0	13,2	0,9	1,5	18,0	579
8	0,26	1,0	17,7	1,25	1,6	23,4	1014
12	0,26	1,0	20,8	1,25	1,7	27,5	1304
16	0,26	1,0	23,2	1,25	1,7	29,9	1561
24	0,26	1,1	29,0	1,25	1,8	35,9	2100
Cross section 1,5 mm² / 7							
2	0,35	1,0	12,5	0,9	1,5	17,3	514
4	0,35	1,0	14,5	0,9	1,5	19,3	651
8	0,35	1,0	19,6	1,25	1,6	26,1	1148
12	0,35	1,0	23,0	1,25	1,7	29,7	1474
16	0,35	1,1	25,9	1,25	1,8	32,8	1797
24	0,35	1,2	32,4	1,6	2,0	40,4	2688

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