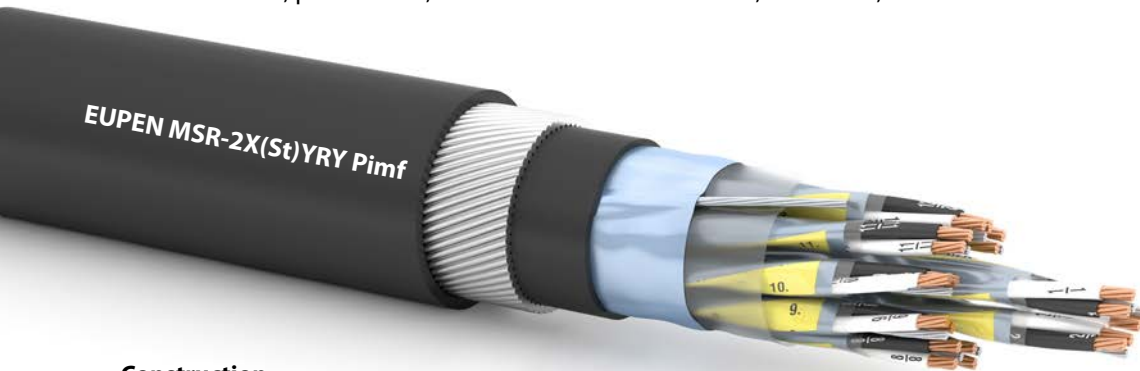


MSR-2X(St)YRY Pimf

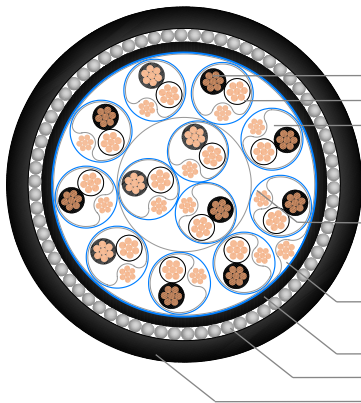
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Reference standard: EN 50288-7

XLPE insulated, pair twisted, individual & overall screened, armoured, PVC sheathed 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: flame-retardant PVC
7. Armoring: one layer of galvanized steel wires
8. Outer sheath: flame-retardant PVC
 Outer sheath color: black or blue or according to customer specification
 Outer sheath marking: EUPEN MSR-2X(St)YRY Pimf 12x2x1,0 mm² 300 V
 + year + meter-marking
 or according to customer specification

Electrical Properties

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

Laying conditions

Operating temperature	-30 °C to +90 °C
Laying temperature	-5 °C to +50 °C
Min. bending radius	10 x outer diameter
Oil resistance	ICEA S-82-552

Fire behaviour

Fire propagation	IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60332-3-24 Cat. C
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Application

Transmission of analog and digital signals for indoor and outdoor applications and suitable for strong mechanical requirements

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

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Number of pairs	Insulation thickness min. 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	335
4	0,26	0,8	10,2	0,9	1,4	14,8	403
8	0,26	1,0	14,0	0,9	1,5	18,8	611
12	0,26	1,0	16,4	0,9	1,5	21,2	762
16	0,26	1,0	18,2	1,25	1,6	23,9	1057
24	0,26	1,0	22,4	1,25	1,7	28,3	1380
Cross section 0,75 mm² / 7							
2	0,26	0,8	9,6	0,9	1,4	14,2	366
4	0,26	0,8	11,1	0,9	1,4	15,7	454
8	0,26	1,0	15,3	0,9	1,5	20,1	691
12	0,26	1,0	17,9	1,25	1,6	23,6	1020
16	0,26	1,0	19,9	1,25	1,6	25,6	1211
24	0,26	1,1	24,8	1,25	1,8	30,9	1612
Cross section 1,0 mm² / 7							
2	0,26	0,8	10,3	0,9	1,4	14,9	406
4	0,26	1,0	12,3	0,9	1,4	16,9	521
8	0,26	1,0	16,5	0,9	1,5	21,3	773
12	0,26	1,0	19,3	1,25	1,6	25,0	1152
16	0,26	1,0	21,5	1,25	1,7	27,4	1383
24	0,26	1,1	26,9	1,25	1,8	33,0	1848
Cross section 1,3 mm² / 7							
2	0,26	0,8	11,0	0,9	1,4	15,6	443
4	0,26	1,0	13,2	0,9	1,5	18,0	582
8	0,26	1,0	17,7	1,25	1,6	23,4	1017
12	0,26	1,0	20,8	1,25	1,7	26,7	1291
16	0,26	1,0	23,2	1,25	1,7	29,1	1548
24	0,26	1,1	29,0	1,25	1,8	35,1	2084
Cross section 1,5 mm² / 7							
2	0,35	1,0	12,5	0,9	1,5	17,3	515
4	0,35	1,0	14,5	0,9	1,5	19,3	654
8	0,35	1,0	19,6	1,25	1,6	25,3	1136
12	0,35	1,0	23,0	1,25	1,7	28,9	1462
16	0,35	1,1	25,9	1,25	1,8	32,0	1783
24	0,35	1,2	32,4	1,6	2,0	39,6	2671

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