

# MSR-2X(St)Yv

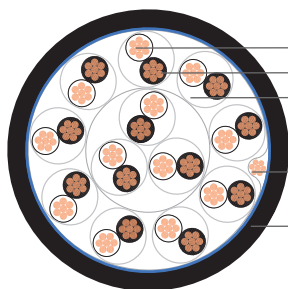
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Reference standard: EN 50288-7

XLPE insulated, pair twisted, overall screened, unarmoured, reinforced PVC sheathed instrumentation cable



## Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: pair(s)  
colour identification: BLACK/WHITE, each core numbered  
Cabling elements assembled in concentric layers
4. Overall screening: laminated Alu/PET tape (9 µm Alu/12 µm PET) in contact with a tinned copper drain wire 0,5 mm<sup>2</sup> (7x0,30 mm)
5. Outer sheath: reinforced, flame-retardant PVC  
Outer sheath color: black or blue or according to customer specification  
Outer sheath marking: EUPEN MSR-2X(St)Yv 12x2x1,3 mm<sup>2</sup> 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 <sup>2</sup> )	≤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)						
Test voltage core/core (V <sub>ac</sub> )				1000		
Test voltage core/screen (V <sub>ac</sub> )				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
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

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Number of pairs	Insulation thickness Minimum mm	Outer sheath thickness Nominal mm	Outer diameter approx. mm	Weight approx. kg/km
<b>Cross section 0,5 mm<sup>2</sup> / 7</b>				
1	0,26	1,8	7,6	68
2	0,26	1,8	10,2	112
4	0,26	1,8	11,3	142
8	0,26	1,8	14,2	218
12	0,26	1,8	16,2	286
16	0,26	1,8	17,7	358
24	0,26	1,8	21,3	487
<b>Cross section 0,75 mm<sup>2</sup> / 7</b>				
1	0,26	1,8	8,0	77
2	0,26	1,8	10,8	128
4	0,26	1,8	12,1	171
8	0,26	1,8	15,4	271
12	0,26	1,8	17,6	363
16	0,26	1,8	19,3	463
24	0,26	1,8	23,0	621
<b>Cross section 1,3 mm<sup>2</sup> / 7</b>				
1	0,26	1,8	8,8	96
2	0,26	1,8	12,1	172
4	0,26	1,8	13,7	237
6	0,26	1,8	15,9	337
8	0,26	1,8	17,6	389
12	0,26	1,8	20,3	534
16	0,26	1,8	22,1	677
24	0,26	1,8	26,9	945

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