

# MSR-2X(St)Yv

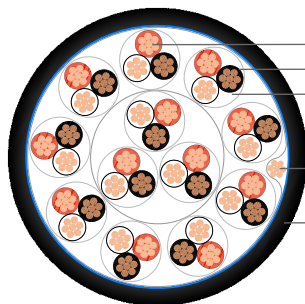
1/2

Reference standard: EN 50288-7

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



## Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: triple(s)  
colour identification: BLACK/WHITE/RED, 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 12x3x1,3 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

**MSR-2X(St)Yv**

2/2

Number of triples	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	7,9	78
2	0,26	1,8	11,0	132
4	0,26	1,8	12,3	177
8	0,26	1,8	15,6	280
12	0,26	1,8	17,9	379
16	0,26	1,8	19,6	479
24	0,26	1,8	23,5	650
<b>Cross section 0,75 mm<sup>2</sup> /7</b>				
1	0,26	1,8	8,3	88
2	0,26	1,8	11,7	158
4	0,26	1,8	13,2	221
8	0,26	1,8	16,8	355
12	0,26	1,8	19,4	488
16	0,26	1,8	21,3	624
24	0,26	1,8	25,6	860
<b>Cross section 1,3 mm<sup>2</sup> /7</b>				
1	0,26	1,8	9,2	114
2	0,26	1,8	13,3	218
4	0,26	1,8	15,1	310
8	0,26	1,8	19,5	526
12	0,26	1,8	22,3	725
16	0,26	1,8	24,6	940
24	0,26	1,8	30,3	1336

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