

# MSR-2X(St)Y

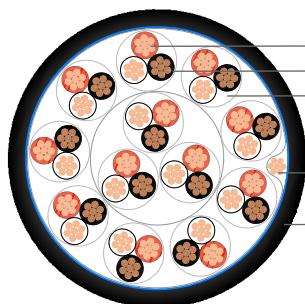
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Reference standard: EN 50288-7

XLPE insulated, triple twisted, overall screened, unarmoured, 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: flame-retardant PVC  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-2X(St)Y 4x3x1,3 mm<sup>2</sup> 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 <sup>2</sup> )	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
Capacitance unbalance between triples	< 500pF / 500m					
Test voltage core/core (V <sub>ac</sub> )	1000					
Test voltage core/screen (V <sub>ac</sub> )	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	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 triples	Insulation thickness min. 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	0,8	5,9	46
2	0,26	0,9	9,1	89
4	0,26	1,0	10,6	133
8	0,26	1,1	14,1	232
12	0,26	1,1	16,4	322
16	0,26	1,2	18,4	425
24	0,26	1,3	22,5	598
<b>Cross section 0,75 mm<sup>2</sup> /7</b>				
1	0,26	0,8	6,3	55
2	0,26	0,9	9,8	112
4	0,26	1,0	11,4	174
8	0,26	1,1	15,3	303
12	0,26	1,2	18,1	435
16	0,26	1,3	20,2	574
24	0,26	1,4	24,8	814
<b>Cross section 1,3 mm<sup>2</sup> /7</b>				
1	0,26	0,9	7,4	77
2	0,26	1,0	11,6	171
4	0,26	1,0	13,3	257
8	0,26	1,2	18,2	472
12	0,26	1,3	21,3	676
16	0,26	1,4	23,9	897
24	0,26	1,5	29,7	1295

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