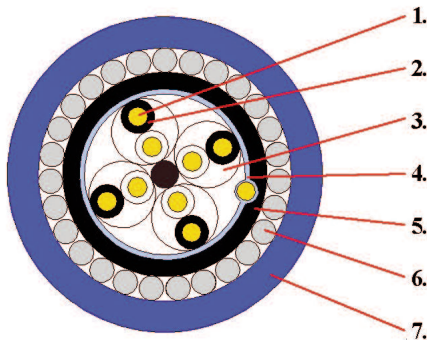


# MSR-2X(St)YRY

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XLPE insulated, overall screened, armoured, PVC sheathed instrumentation cable

## Construction



1. Conductor: bare annealed copper, stranded, cl. 2 acc. IEC 60228
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: pairs or triples  
 colour identification: pairs: BLACK/WHITE, each core numbered  
 tripels: 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. Inner sheath: flame-retardant PVC
6. Armoring: one layer of galvanized steel wires
7. Outer sheath: flame-retardant PVC  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-2X(St)YRY 4x2x1,0 mm<sup>2</sup> 300 V  
 + year + meter-marking  
 or according to customer specification

## Electrical Properties acc. to EN 50288-7 (valid for single- and multi pair/triple types)

Voltage rating (V)	300 V				500 V			
	0,5	0,75	1,0	1,5	0,75	1,0	1,5	2,5
Conductor cross-section (mm <sup>2</sup> )	0,5	0,75	1,0	1,5	0,75	1,0	1,5	2,5
Conductor resistance @ 20 °C (Ω/km)	≤36,7	≤25,0	≤18,5	≤12,3	≤25,0	≤18,5	≤12,3	≤7,56
Mutual capacitance * (nF/km)								
single pair:	≤115	≤115	≤115	≤115	≤115	≤115	≤115	≤115
≤ 4 pairs:	≤90	≤90	≤90	≤90	≤90	≤90	≤90	≤90
> 4 pairs:	≤75	≤75	≤75	≤75	≤75	≤75	≤75	≤75
L/R ratio * (µH/Ω)	<25	<25	<25	<40	<25	<25	<40	<60
Test voltage core/core (V <sub>ac</sub> )		1000					2000	
Test voltage core/screen (V <sub>ac</sub> )		1000					2000	
Insulation resistance @ 20 °C (MΩ*km)		>5000					>5000	

\* valid for pair cables

## 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 Cat. A or Cat.C on request)
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## Application

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