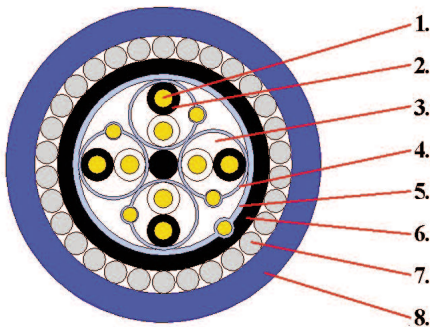


# MSR-2X(St)YRY Pimf - Timf

1/1

XLPE insulated, individual &amp; 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  
 triple: BLACK/WHITE/RED, each core numbered
4. Individual 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)  
 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 mm<sup>2</sup> (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 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> )	≤36,7	≤25,0	≤18,5	≤12,3	≤25,0	≤18,5	≤12,3	≤7,56
Conductor resistance @ 20 °C (Ω/km)	≤115	≤115	≤115	≤115	≤115	≤115	≤115	≤115
Mutual capacitance * (nF/km)	<25	<25	<25	<40	<25	<25	<40	<60
L/R ratio * (µH/Ω)	1000				2000			
Test voltage core/core (V <sub>ac</sub> )	1000				2000			
Test voltage core/screen (V <sub>ac</sub> )	>5000				>5000			
Insulation resistance @ 20 °C (MΩ*km)								

\* 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