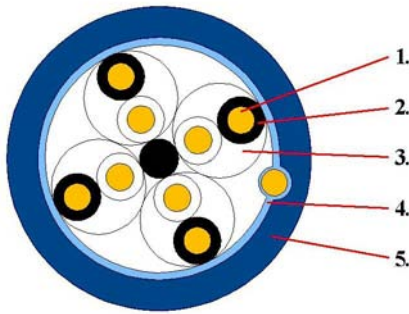


# MSR-2X(St)H

1/1

XLPE insulated, overall screened, unarmoured, halogen-free 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  
 triples: BLACK/WHITE/RED, each core numbered  
 Cabling elements assembled in concentric layers
4. Overall screening: laminated Alu/PET tape (9µm Alu/12µm PET) in contact with a tinned copper drain wire 0,5 mm<sup>2</sup> (7x0,30mm)
5. Outer sheath: halogen-free, fire-retardant polymer compound  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-2X(St)H 4x2x1,0mm<sup>2</sup> 300V  
 + 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)	≤36,7	≤25,0	≤18,5	≤12,3	≤25,0	≤18,5	≤12,3	≤7,56
Mutual capacitance * (nF/km)	≤115	≤115	≤115	≤115	≤115	≤115	≤115	≤115
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	7,5 x outer diameter

## Fire behaviour

Fire propagation	IEC 60332-3 Cat. C (Cat. A on request)
Smoke density	IEC 61034-1+2
Corrosivity of combustion gas	IEC 60754-2
Toxicity of combustion gas	NF X 70-100

## Application

Transmission of analog and digital signals for indoor and outdoor (in suitable cable trays) applications where improved fire behavior is requested.