

# MSR-m2X(St)HRH

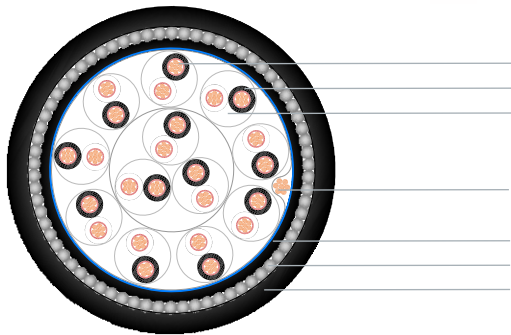
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Reference standard: EN 50288-7

Fire resistant, XLPE insulated, pair twisted, overall screened, armoured, halogen free instrumentation cable



## Construction



1. Conductor: bare stranded copper
2. Insulation: Mica tape (fire barrier) + cross-linked PE (XLPE)
3. Cabling elements: paires  
 colour identification: BLACK/WHITE, 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: halogen free, fire-retardant polymer compound
6. Armoring: one layer of galvanized steel wires
7. Outer sheath: halogen free, fire-retardant polymer compound  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-m2X(St)HRH 12x2x1,0 mm<sup>2</sup> 500 V  
 + year + meter-marking  
 or according to customer specification

## Electrical Properties

Voltage rating (V)	500 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)	2000					
Test voltage core/core (V <sub>ac</sub> )	2000					
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	10 x outer diameter

## Fire behaviour

Fire propagation	IEC 60332-3 Cat. C (Cat. A on request)
Fire resistance	IEC 60331-21
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.  
 With improved fire behaviour and suitable for strong mechanical requirements.

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