

# MSR-HX(St)H

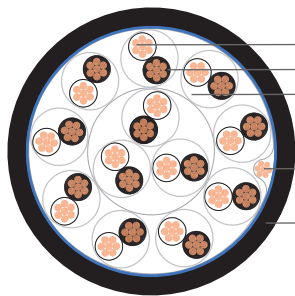
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Reference standard: EN 50288-7

Fire resistant, ceramic insulated, pair twisted, overall screened, unarmoured, halogen-free instrumentation cable



## Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked halogen-free ceramic forming polymer compound
3. Cabling elements: pairs  
 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. Outer sheath: halogen-free, fire-retardant polymer compound  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-HX(St)H 12x2x1,0 mm<sup>2</sup> 300 V  
 + year + meter-marking  
 or according to customer specification

## Electrical Properties

Voltage rating (V)	300 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)	<250	<250	<250	<250	<250	<250
Mutual capacitance (nF/km)	<25	<25	<25	<40	<40	<60
L/R ratio (µH/Ω)	1000					
Test voltage core/core (V <sub>ac</sub> )	1000					
Test voltage core/screen (V <sub>ac</sub> )	>300					
Insulation resistance @ 20 °C (MΩ*km)						

## 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)
Fire resistance	IEC 60331-21/IEC 60331-1/IEC 60331-2 (EN 50200)
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 behaviour is requested.

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