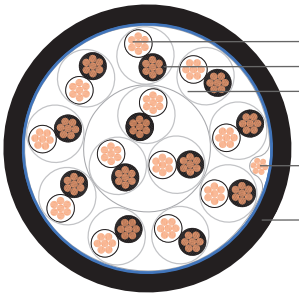
MSR-HX(St)H

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 mm² (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 mm² 300 V
   + year + meter-marking
   or according to customer specification

Electrical Properties

Voltage rating (V)	300 V					
Conductor cross-section (mm²)	**0,5**	**0,75**	**1,0**	**1,3**	**1,5**	**2,5**
Conductor resistance @ 20 °C (Ω/km)	≤36,7	≤25,0	≤18,5	≤14,2	≤12,3	≤7,56
Mutual capacitance (nF/km)	<250	<250	<250	<250	<250	<250
L/R ratio (µH/Ω)	<25	<25	<25	<40	<40	<60
Test voltage core/core (V_{ac})	1000					
Test voltage core/screen (V_{ac})	1000					
Insulation resistance @ 20 °C (MΩ*km)	>300					

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.