

MSR-2X(St)H

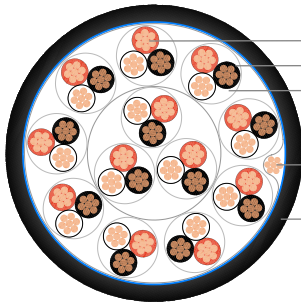
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Reference standard: EN 50288-7

XLPE insulated, triple twisted, overall screened, unarmoured, halogen-free instrumentation cable



Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: triple(s)
colour identification: 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 mm² (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 12x3x1,3mm² 300V
+ 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 ²)	≤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)	< 500pF / 500m					
Capacitance unbalance between triples	1000					
Test voltage core/core (V _{ac})	1000					
Test voltage core/screen (V _{ac})	>1000					
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 60332-1 IEC 60332-3-22 Cat. A IEC 60332-3-24 Cat. C
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.



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Number of triples	Insulation thickness min. mm	Outer sheath thickness nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 0,5 mm² /7				
1	0,26	0,8	5,9	48
2	0,26	0,9	9,1	92
4	0,26	1,0	10,6	138
8	0,26	1,1	14,1	236
12	0,26	1,1	16,4	325
16	0,26	1,2	18,4	430
24	0,26	1,3	22,5	592
Cross section 0,75 mm² /7				
1	0,26	0,8	6,3	57
2	0,26	0,9	9,8	114
4	0,26	1,0	11,4	176
8	0,26	1,1	15,3	308
12	0,26	1,2	18,1	440
16	0,26	1,3	20,2	578
24	0,26	1,4	24,8	806
Cross section 1,3 mm² /7				
1	0,26	0,9	7,4	83
2	0,26	1,0	11,6	175
4	0,26	1,0	13,3	259
8	0,26	1,2	18,2	478
12	0,26	1,3	21,3	670
16	0,26	1,4	23,9	889
24	0,26	1,5	29,7	1286

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