

MSR-2X(St)Y

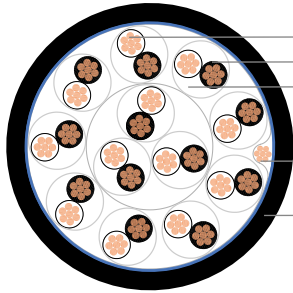
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Reference standard: EN 50288-7

XLPE insulated, pair twisted, overall screened, unarmoured, PVC sheathed instrumentation cable



Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: pair(s)
 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: flame-retardant PVC
 Outer sheath color: black or blue or according to customer specification
 Outer sheath marking: EUPEN MSR-2X(St)Y 4x2x1,0 mm² 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 ²)						
Conductor resistance @ 20 °C (Ω/km)	≤36,7	≤25,0	≤18,5	≤14,2	≤12,3	≤7,56
Mutual capacitance (nF/km)	<150	<150	<150	<150	<150	<150
L/R ratio (µH/Ω)	<25	<25	<25	<40	<40	<60
Capacitance unbalance between pairs	< 500pF / 500m					
Test voltage core/core (V _{ac})	1000					
Test voltage core/screen (V _{ac})	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	7,5 x outer diameter
Oil resistance	ICEA S-82-552

Fire behaviour

Fire propagation	IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60332-3-24 Cat. C
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Application

Transmission of analog and digital signals for indoor and outdoor applications

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Number of pairs	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	5,6	39
2	0,26	0,9	8,3	73
4	0,26	0,9	9,4	99
8	0,26	1,0	12,5	168
12	0,26	1,1	14,7	236
16	0,26	1,1	16,2	302
24	0,26	1,2	20,0	428
Cross section 0,75 mm² / 7				
1	0,26	0,8	6,0	45
2	0,26	0,9	8,9	90
4	0,26	1,0	10,4	129
8	0,26	1,1	13,9	222
12	0,26	1,1	16,1	308
16	0,26	1,2	18,0	409
24	0,26	1,3	22,0	570
Cross section 1,0 mm² / 7				
1	0,26	0,8	6,4	53
2	0,26	0,9	9,6	104
4	0,26	1,0	11,2	158
8	0,26	1,1	15,0	275
12	0,26	1,2	17,6	393
16	0,26	1,2	19,5	510
24	0,26	1,3	24,0	720
Cross section 1,3 mm² / 7				
1	0,26	0,9	7,0	64
2	0,26	1,0	10,4	130
4	0,26	1,0	12,0	189
8	0,26	1,1	16,1	333
12	0,26	1,2	19,0	478
16	0,26	1,3	21,1	628
24	0,26	1,4	26,1	897

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



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Number of pairs	Insulation thickness Minimum mm	Outer sheath thickness Nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 1,5 mm² / 7				
1	0,35	0,9	7,6	73
2	0,35	1,0	11,4	152
4	0,35	1,1	13,4	225
8	0,35	1,2	18,0	399
12	0,35	1,3	21,0	565
16	0,35	1,4	23,6	755
24	0,35	1,5	29,3	1077
Cross section 2,5 mm² / 7				
1	0,35	0,9	8,4	96
4	0,35	1,1	15,0	313
12	0,35	1,4	24,0	821