

MSR-2X(St)Y

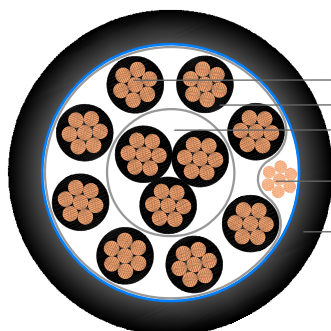
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Reference standard: EN 50288-7

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



Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: twisted cores
identification: BLACK, each core numbered
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 5x1,5 mm² 500 V
+ year + meter-marking
or according to customer specification

Electrical Properties

	500 V					
	0,5	0,75	1,0	1,3	1,5	2,5
Voltage rating (V)						
Conductor cross-section (mm ²)	0,5	0,75	1,0	1,3	1,5	2,5
Conductor resistance @ 20 °C (Ω/km)	≤36	≤24,5	≤18,1	≤13,9	≤12,1	≤7,41
Mutual capacitance (nF/km)	<150	<150	<150	<150	<150	<150
L/R ratio (µH/Ω)	<25	<25	<25	<40	<40	<60
Test voltage core/core (V _{ac})	2000					
Test voltage core/screen (V _{ac})	2000					
Insulation resistance @ 20 °C (MΩ*km)	>5000					

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 cores	Insulation thickness minimum mm	Outer sheath thickness nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 1,5 mm² / 7				
5	0,44	1,0	10,5	154
7	0,44	1,0	11,3	192
12	0,44	1,1	14,7	311
16	0,44	1,2	16,5	407
19	0,44	1,2	17,3	465
24	0,44	1,3	20,3	587
27	0,44	1,3	20,7	646
33	0,44	1,3	22,0	764
37	0,44	1,4	23,0	851
Cross section 2,5 mm² / 7				
5	0,53	1,0	12,1	218
7	0,53	1,1	13,3	283
12	0,53	1,2	17,4	461
16	0,53	1,3	19,5	609
19	0,53	1,3	20,5	697
24	0,53	1,4	23,8	866
27	0,53	1,4	24,3	959
33	0,53	1,5	26,4	1168
37	0,53	1,5	27,4	1286

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