SIEMENS

Data sheet 6XV1871-5MH50

product type designation

product description



IE plug-in cable M12-90/IE FC RJ45

Flexible plug-in cable (4-wire), preferred length, pre-assembled with one 4-pin M12 connector (D-coded, 90° angle) and one IE FC RJ45 plug 180

IE Connecting Cable M12-90/IE FC RJ45 Plug-180; IE FC Trailing cable GP pre-assembled with M12 connector (D-coded) and IE FC RJ45 plug; length 5.0 m.

For connecting Industrial Ethernet stations (e.g. SIMATIC ET200pro.

suitability for use	SCALANCE X208PRO and SIMOTION)
cable designation	2YY (ST) CY 2x2x0,75/1,5-100 LI GN
wire length	5 m
electrical data	
number of electrical connections	2
attenuation factor per length	
• at 10 MHz / maximum	0.063 dB/m
at 100 MHz / maximum	0.213 dB/m
impedance	
● at 1 MHz 100 MHz	100 Ω
relative symmetrical tolerance	
of the characteristic impedance at 1 MHz 100 MHz	5 %
near-end crosstalk per length	
● at 1 MHz 100 MHz	0.5 dB/m
transfer impedance per length / at 10 MHz	20 mΩ/m
loop resistance per length / maximum	120 mΩ/m
operating voltage	
RMS value	80 V
NVP value in percent	66 %
mechanical data	
number of electrical cores	4
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
core diameter	
of AWG22 insulated conductor	0.75 mm
outer diameter	
 of inner conductor 	0.75 mm
 of the wire insulation 	1.5 mm
 of the inner sheath of the cable 	3.9 mm
of cable sheath	6.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	
 of the wire insulation 	polyethylene (PE)
 of the inner sheath of the cable 	PVC

Color of the insulation of data wires of clabids shedin bending radius with single bend / minimum permisable with multiple bends / minimum permisable with with multiple with minimum permisable with with multiple pends / minimum permisable with with multiple with minimum per	of cable sheath	PVC	
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with single bend / minimum permissible with continuous bending weight per length weight per lengt			
with multiple bends / minimum permissible	3	32.5 mm	
number of bending cycles number of bending cycles 20000000: Trag chain suitable for 3 million bending cycles at a bending radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s' tensile load / maximum weight per length 88 kg/km shibert conditions ambent temperature 4 uring operation 4 uring storage 4 25 +75 °C 4 uring storage 4 uring storage 4 25 +75 °C 4 uring installation 5 10 +80 °C 5 +75 °C 6 uring transport 9 472 fire behavior 1 anare resistant according to UL 1885 (CSA FT 4) themsel are sistance 1 to mineral oil 1 to grease 1 to water radiological resistance / to UV radiation resistant product features, product functions, product components / general product feature 1 halogen-free 1 halogen-free 2 lailcon-free 2 standards, specifications, approvals ULFEIL Isting / 300 V Rating Ves: cRULB AWM 21694 AWM 1 A/B 60°C 600V FT2 certificate of sultability 4 CEA approval 4 CE marking 4 Yes 4 CE marking 4 Yes 4 CE marking 4 Yes 4 CE marking 5 Yes 4 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 certificate of sultability 4 CEA approval 4 CE marking 5 Yes 5 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 certificate of sultability 4 CEA approval 5 CE marking 5 Yes 6 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 certificate of sultability 5 CEAC approval 6 CE marking 7 Yes 7 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 Certificate of sultability 7 CEAC approval 8 Yes 8 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 Certificate of sultability 8 AWM 21694 AWM 1 A/B 60°C 600V FT2 Certificate of sultability 8 AWM 21694 AWM 1 A/B 60°C 600V FT2 Certificate of sultability 9 CEAC approval 9 Yes 9 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 Certificate of sultability 9 CEAC approval 9 Yes 9 CHULB AWM 21694 AWM 1 A/B 60°C 600V FT2 Certificate of sultability 1 CEAC approval 9 Yes 1 CE marking 1 Yes 1 CEAC Approval 9 Yes 1 CEAC Approval 1 Yes 1 CEAC	-		
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