SIEMENS

Data sheet 6XV1870-8AH50

product type designation

product description

IE Connecting Cable M12-180/M12-180

Flexible plug-in cable (4-wire), preferred length, prefabricated with two 4-pole M12 connectors (D-coded, 180° cable outlet)

Industrial Ethernet connecting Cable M12-180/M12-180 pre-assembled IE FC Trailing Cable GP, with 2 M12 connectors (D-coded) length 5.0 m.



suitability for use	For connecting Industrial Ethernet stations (e.g. SIMATIC ET200 and SCALANCE XP-200) in IP 65/67 degree of protection		
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		
of cable sheath	PVC		
color			
 of the insulation of data wires 	white/yellow/blue/orange		

of cable sheath	green		
bending radius	g. 55.,		
with single bend / minimum permissible	32.5 mm		
with multiple bends / minimum permissible	32.5 mm 49 mm		
with multiple bends / minimum permissible with continuous bending	100 mm		
number of bending cycles	3000000; Drag chain suitable for 3 million bending cycles at a bending radius of		
number of bending cycles	100 mm, a speed of 4 m/s and an acceleration of 4 m/s ²		
tensile load / maximum	150 N		
weight per length	68 kg/km		
plug			
type of plug interlock	screwed		
connector coding			
of the M12 circular connector	D-coded .		
ambient conditions			
ambient temperature			
during operation	-25 +75 °C		
during sporation during storage	-25 +75 °C		
during storage during transport	-25 +75 °C		
during installation	-10 +60 °C		
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472		
fire behavior	flame resistant according to UL 1685 (CSA FT 4)		
chemical resistance			
• to mineral oil	conditional resistance		
• to grease	Conditional resistance		
radiological resistance / to UV radiation	resistant		
protection class IP	IP65, IP67		
product features, product functions, product components / gen			
product feature			
•	No		
halogen-freesilicon-free	Yes		
standards, specifications, approvals	Tes		
	Vacca/ETI \ua_CMC ET4 //ETI \ua_DI TC / Cua Dag / OII DEC		
UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES		
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2		
certificate of suitability	Van		
EAC approval CE marking	Yes		
CE marking Dell's conformity.	Yes		
RoHS conformity And and for attractive depolitions	Yes		
standard for structured cabling	Cat5e		
Marine classification association			
 American Bureau of Shipping Europe Ltd. (ABS) 	No		
	No No		
• French marine classification society (BV)	No		
French marine classification society (BV)Det Norske Veritas (DNV)	No No		
 French marine classification society (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) 	No No No		
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