SIEMENS

Data sheet 6XV1870-8GH30

product type designation

product description

IE Connecting Cable M12-90/M12-90

Flexible plug-in cable (4-wire), preferred length, prefabricated with two 4-pin M12 connectors (D-coded, 90° cable outlet)

IE Connecting Cable M12-90/M12-90, pre-assembled IE FC Trailing Cable GP, with 2 M12 connectors (D-coded) Length 3.0 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	3 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	green	
with single bend / minimum permissible	32.5 mm	
with single bendy minimum permissible with multiple bends / minimum permissible	49 mm	
·	100 mm	
with continuous bending		
number of bending cycles	3000000; Drag 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 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 storage	-25 +75 °C	
during storage during transport	-25 +75 °C	
during transport 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)	
	name resistant according to OL 1000 (COM FT 4)	
chemical resistance	conditional registeres	
• 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	eral	
product feature		
halogen-free	No	
• silicon-free	Yes	
standards, specifications, approvals		
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		
 EAC approval 	Yes	
CE marking	Yes	
 RoHS conformity 	Yes	
standard for structured cabling	Cat5e	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	No	
French marine classification society (BV)	No	
Det Norske Veritas (DNV)	No	
Germanische Lloyd (GL)	No	
Lloyds Register of Shipping (LRS)	No	
Nippon Kaiji Kyokai (NK)	No	
Polski Rejestr Statkow (PRS)	No	
reference code	NO.	
	WC	
according to IEC 81346-2 according to IEC 81246-2:2010	WG	
according to IEC 81346-2:2019	WGB	
further information / internet links		
internet link		
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool	
 to website: Industrial communication 	http://www.siemens.com/simatic-net	
to website: Industry Mall	https://mall.industry.siemens.com	
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter	
• to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP	
• to website: Image database	http://automation.siemens.com/bilddb	
to website: CAx-Download-Manager	http://www.siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	
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