SIEMENS

Data sheet 6XV1870-8GN15

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 15.0 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	15 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		

a of apple abouth	green		
of cable sheath	green		
bending radius	22.5		
with single bend / minimum permissible	32.5 mm		
with multiple bends / minimum permissible	49 mm		
with continuous bending	100 mm		
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 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	32 1000 (00		
• to mineral oil	conditional resistance		
• to grease	Conditional resistance		
	resistant		
radiological resistance / to UV radiation	IP65, IP67		
protection class IP			
product features, product functions, product components / gene	cial ————————————————————————————————————		
product feature	No		
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			
according to IEC 81346-2	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 web page: selection and The Selection Tool to website: Industrial communication	http://www.siemens.com/simatic-net		
to website: Industrial communication to website: Industry Mall	https://mall.industry.siemens.com		
to website: Industry Mail to website: Information and Download Center			
	http://www.siemens.com/industry/infocenter		
to website: Selection guide for cables and connectors to website: Image database	https://sie.ag/2QdlxcP		
to website: Image database to website: CAy Dayreland Managers	http://automation.siemens.com/bilddb		
to website: CAx-Download-Manager to website: Industry Online Compart	http://www.siemens.com/cax		
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