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

of cable sheath	green
bending radius	
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
tensile load / maximum	100 mm, a speed of 4 m/s and an acceleration of 4 m/s² 150 N
weight per length	68 kg/km
plug	00 1.9 1.1.1
type of plug interlock	screwed
design of plug-in connection	M12-90
tightening torque / for M12 round connector / maximum	0.6 N·m
connector coding	M12
of the M12 circular connector	D-coded
ambient conditions	D-coued
ambient temperature	05 .75 00
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	
• 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 / ger	neral
product feature	
halogen-free	No
- The state of the	
• silicon-free	Yes
-	Yes
• silicon-free	Yes Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES
• silicon-free standards, specifications, approvals	
silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES
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silicon-free standards, specifications, approvals UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating certificate of suitability	Yes; c(ETL)us, CMG FT4 / (ETL)us PLTC / Sun Res / OIL RES Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2 UL 2238
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Approvals / Certificates

General Product Approval







Declaration of Conformity

Manufacturer Declaration



Industrial Communication

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