

product type designation

PROFIBUS Hybrid Standard Cable GP

product description

Hybrid cable (data and energy wires), product sold by meter, unassembled

PROFIBUS hybrid standard cable GP, Cable with 2xCU (1.5 mm²) and 2xCU (0.64 mm) shielded, ET 200, sold by the meter, delivery unit max. 1000 m minimum order quantity: 20 m.

suitability for use

Trailing-type, hybrid cable used for supplying data and power to ET 200pro

cable designation

02Y(ST)C 1x2x0.65/2.56-150LI LIY-Z Y 2x1x1.5 VI

electrical data

attenuation factor per length

• at 9.6 kHz / maximum	0.004 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.025 dB/m
• at 16 MHz / maximum	0.049 dB/m

impedance

• rated value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• at 3 MHz ... 20 MHz	150 Ω

relative symmetrical tolerance

• of the characteristic impedance at 9.6 kHz	10 %
• of the characteristic impedance at 38.4 kHz	10 %
• of the characteristic impedance at 3 MHz ... 20 MHz	10 %

loop resistance per length / maximum

138 Ω/km

shield resistance per length / maximum

10 Ω/km

insulation resistance coefficient

20 GΩ·m

operating voltage / maximum

80 V

capacity per length / at 1 kHz

30 pF/m

operating voltage / RMS value

300 V

conductor cross section / of the power line

1.5 mm²

continuous current / of the power lines

7.5 A

mechanical data

design of the shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

number of electrical cores

4

type of electrical connection / FastConnect

No

outer diameter

• of inner conductor	0.67 mm
• of the wire insulation	2.56 mm
• of cable sheath	11 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.5 mm

material

<ul style="list-style-type: none"> • of the wire insulation • of cable sheath 	polyethylene (PE) PVC
color <ul style="list-style-type: none"> • of the insulation of data wires • of the power line insulation • of cable sheath 	red / green Black Violet
bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	44 mm 125 mm
number of bending cycles	1000000; For use in cable carriers, for 1 million bending cycles with a bending radius of 125 mm and an acceleration of 2.5 m/s ²
tensile load / maximum	450 N
weight per length	140 kg/km

ambient conditions

ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note 	-40 ... +75 °C -40 ... +75 °C -40 ... +75 °C -40 ... +75 °C Electrical properties measured at 20 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0490
fire behavior	flame-retardant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease 	Conditional resistance Conditional resistance
radiological resistance / to UV radiation	not resistant

product features, product functions, product components / general

product feature <ul style="list-style-type: none"> • halogen-free • silicon-free 	No Yes
--	-----------

standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254 CMG FT4 75°C
UL/ETL style / 600 V Rating	Yes
certificate of suitability <ul style="list-style-type: none"> • EAC approval • RoHS conformity 	Yes Yes

further information / internet-Links

Internet-Link <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Selection guide for cables and connectors • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
---	--

last modified: 5/21/2021 