SIEMENS

Data sheet

6XV1830-0GH10

product type designation	PROFIBUS FC Food Cable
product description	Bus cable (2-core), sold by the meter, unassembled
	PROFIBUS FC FOOD bus cable with PE outer sheath for use in the food and beverage industry 2-core shielded, sold by the meter delivery unit max. 1000 m minimum order quantity 20 m.
suitability for use cable designation	For use in the food, beverages and tobacco industries 02YSY (ST) C2Y 1x2x0,64/2,55-150 KF 40
lectrical data	
attenuation factor per length • at 9.6 kHz / maximum • at 38.4 kHz / maximum • at 4 MHz / maximum • at 16 MHz / maximum	0.0025 dB/m 0.004 dB/m 0.022 dB/m 0.042 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	110 mΩ/m 9.5 Ω/km
shield resistance per length / maximum capacity per length / at 1 kHz	28.5 pF/m
operating voltage	20.5 pi /m
RMS value	80 V
nechanical data	
number of electrical cores	2
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
type of electrical connection / FastConnect	Yes
outer diameter	
of inner conductor	0.65 mm
 of the wire insulation 	2.55 mm
 of the inner sheath of the cable 	5.4 mm
 of cable sheath 	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
 of the wire insulation 	polyethylene (PE)
 of the inner sheath of the cable 	PVC

• of the insulation of data wires red/green • of cable sheath Black bending radius 30 mm • with single bend / minimum permissible 60 mm tensile load / maximum 100 N weight per length 67 kg/km ambient temperature - • during operation -40 +60 °C • during storage -40 +60 °C • during installation -40 +60 °C • lot off Electrical properties measured at 20 respectively DIN VDE 0472 fire behavior inflammable class of burning behaviour / according to EN 13501-6 Fca chemical resistance oil resistant according to IEC 60811- • to grease Conditional resistance • to water conditional resistance radiological resistance / to	
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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 WG WG WG	
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