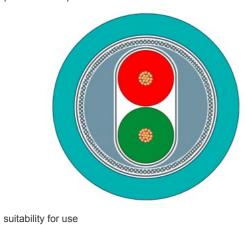
## **SIEMENS**

Data sheet 6XV1830-3EH10

## product type designation

product description



## **PROFIBUS FC Trailing Cable**

Continuous motion control in a cable carrier

Highly flexible bus cable (2-core), sold by the meter, unassembled

PROFIBUS FC Trailing Cable, PROFIBUS trailing cable, max. Acceleration 4 m/QS min. 3 million bending cycles min. Bending radius approx. 120 mm 2-wire shielded, sold by the meter delivery unit max. 1000 m minimum order quantity 20 m

culturally for acc	
cable designation	02YY (ST) C11Y 1x2x0,65/2,56-150 LI KF 40 FR petrol
electrical data	
attenuation factor per length	
• at 9.6 kHz / maximum	0.003 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	
<ul> <li>of the characteristic impedance at 9.6 kHz</li> </ul>	10 %
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	10 %
• of the characteristic impedance at 3 MHz 20 MHz	10 %
loop resistance per length / maximum	133 mΩ/m
shield resistance per length / maximum	14 Ω/km
capacity per length / at 1 kHz	28 pF/m
operating voltage	
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	
<ul> <li>of inner conductor</li> </ul>	0.67 mm
<ul> <li>of the wire insulation</li> </ul>	2.56 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	5.4 mm
<ul> <li>of cable sheath</li> </ul>	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
of the wire insulation	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC
	PUR (TPE-U)

of cable sheath	red/green petrol
bending radius	
<ul> <li>with single bend / minimum permissible</li> </ul>	40 mm
with continuous bending	120 mm
number of bending cycles	3000000; Drag chain suitable for 3 million bending cycles at a bending radius of 120 mm (15x D), a speed of 4 m/s and an acceleration of 4 m/s $^2$
tensile load / maximum	100 N
weight per length	77 kg/km
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +60 °C
during storage	-40 +60 °C
<ul> <li>during transport</li> </ul>	-40 +60 °C
during installation	-40 +60 °C
• note	Electrical properties measured at 20 $^{\circ}\text{C},$ tests according to DIN 47250 part 4 respectively DIN VDE 0472
ambient condition / for operation	Limited segment length (see manual for PROFIBUS networks)
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (7x24h/90°C)
• to grease	resistant
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / ge	neral
product feature	
halogen-free	No
• silicon-free	Yes
	Yes
silicon-free standards, specifications, approvals	
silicon-free standards, specifications, approvals  UL/ETL listing / 300 V Rating	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2
silicon-free  standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating	Yes; c(UL)us / CMX
silicon-free standards, specifications, approvals  UL/ETL listing / 300 V Rating	Yes; c(UL)us / CMX
silicon-free standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability      EAC approval	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2
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