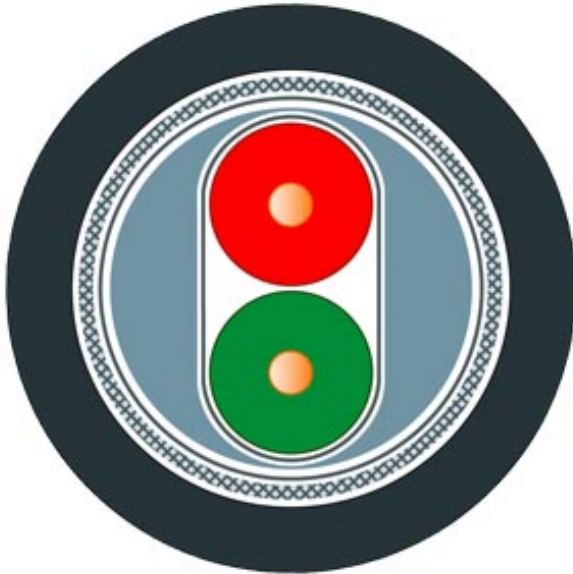


product type designation  
product description

### PROFIBUS FC Food Cable

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 length max. 1000 m Minimum order 20 m



suitability for use	For use in the food, beverages and tobacco industries
cable designation	02YSY (ST) C2Y 1x2x0,64/2,55-150 KF 40
<b>electrical data</b>	
damping ratio per length	
• at 9.6 kHz / maximum	0.0025 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.022 dB/m
• at 16 MHz / maximum	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 %

<ul style="list-style-type: none"> <li>of the characteristic impedance at 3 MHz ... 20 MHz</li> </ul>	10 %
loop resistance per length / maximum	110 mΩ/m
shield resistance per length / maximum	9.5 Ω/km
capacity per length / at 1 kHz	28.5 pF/m
operating voltage	
<ul style="list-style-type: none"> <li>RMS value</li> </ul>	80 V

#### mechanical 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 style="list-style-type: none"> <li>of inner conductor</li> </ul>	0.65 mm
<ul style="list-style-type: none"> <li>of the wire insulation</li> </ul>	2.55 mm
<ul style="list-style-type: none"> <li>of the inner sheath of the cable</li> </ul>	5.4 mm
<ul style="list-style-type: none"> <li>of cable sheath</li> </ul>	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
<ul style="list-style-type: none"> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul style="list-style-type: none"> <li>of the inner sheath of the cable</li> </ul>	PVC
<ul style="list-style-type: none"> <li>of cable sheath</li> </ul>	PE; Outer cover made of PE is especially suitable for the food processing industry
color	
<ul style="list-style-type: none"> <li>of the insulation of data wires</li> </ul>	red/green
<ul style="list-style-type: none"> <li>of cable sheath</li> </ul>	Black
bending radius	
<ul style="list-style-type: none"> <li>with single bend / minimum permissible</li> </ul>	30 mm
<ul style="list-style-type: none"> <li>with multiple bends / minimum permissible</li> </ul>	60 mm
tensile load / maximum	100 N
weight per length	67 kg/km

#### ambient conditions

ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +60 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +60 °C
<ul style="list-style-type: none"> <li>during installation</li> </ul>	-40 ... +60 °C
<ul style="list-style-type: none"> <li>note</li> </ul>	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
burning behavior	inflammable
class of burning behaviour / according to EN 13501-6	Fca

chemical resistance	<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> <li>• to water</li> </ul>	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance
radiological resistance / to UV radiation		resistant

### product features, product functions, product components / general

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

### standards, specifications, approvals

UL/ETL listing / 300 V Rating	No	
UL/ETL style / 600 V Rating	No	
certificate of suitability		
<ul style="list-style-type: none"> <li>• EAC approval</li> <li>• CE marking</li> <li>• RoHS conformity</li> </ul>	Yes	Yes
Marine classification association		
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No	No

### further information / internet-Links

Internet-Link		
<ul style="list-style-type: none"> <li>• to website: Selector TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	

**last modified:** 10/05/2020