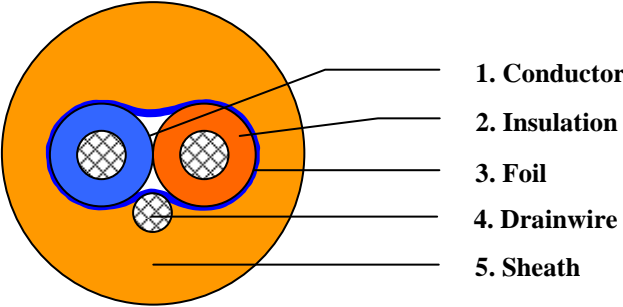
	<b>TECHNICAL DATA SHEET</b>	code	<b>70100E</b>
	PROFIBUS PA CABLE	version	<b>1</b>
		date	<b>2012-07-24</b>
	<b>70100E</b>	page	<b>1/2</b>


**APPLICATION**

Instrumentation and computer cable for Data Transmission applications.

**CONSTRUCTION**



- |                              |                                     |
|------------------------------|-------------------------------------|
| <b>1. Conductor</b>          | 18 AWG (7x26AWG) tinned copper wire |
| <b>2. Insulation</b>         |                                     |
| Material                     | Polyolefin                          |
| Diameter over insulation     | 2.55 ± 0.05 mm                      |
| Colour of insulation         | Blue and Orange                     |
| <b>3. Foil</b>               |                                     |
| Material                     | Aluminium / Polyester               |
| <b>4. Drainwire</b>          | 20 AWG (7x28AWG) tinned copper wire |
| <b>5. Sheath</b>             |                                     |
| Material                     | PVC                                 |
| Nominal diameter over jacket | 7.5 mm                              |
| Colour                       | Orange or Blue.                     |

	<b>TECHNICAL DATA SHEET</b>	code	<b>70100E</b>
	PROFIBUS PA CABLE	version	<b>1</b>
		date	<b>2012-07-24</b>
	<b>70100E</b>	page	<b>2/2</b>

## REQUIREMENTS AND TEST METHODS

### Electrical acc IEC 61158-2

Max. operating voltage		300	V rms
Max. capacitance between conductors of a pair @ 1kHz		80	nF/km
Max. capacitance cond. to other cond. and shield @ 1 kHz		155	nF/km
Maximum conductor DC-resistance @ 20°C		20.5	Ω/km
Maximum shield DC-resistance @ 20°C		26.0	Ω/km
Nom. velocity of propagation		66	%
Impedance @ 31.25 kHz		100 +/-	20 Ω
Max. attenuation	@ 10 kHz	0.2	dB/100m
	@ 39 kHz	0.3	dB/100m
	@ 100 kHz	0.6	dB/100m
	@ 500 kHz	2.8	dB/100m
	@ 1 MHz	3.7	dB/100m

### Mechanical and physical:

Flame resistance	IEC 60332-1
Temperature range installing	- 5 to +70 °C
Temperature range operating and storage	-30 to +70 °C
Minimum bending radius	100 mm
Maximum pulling tension	50 N



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

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