

PROFIBUS CABLES



Profibus-DP: This Profibus variation, optimizing velocity and low installation costs, is especially developed for the communication between automation systems and decentralized peripheral equipment in the field area. Profibus-DP cable substitutes for conventional parallel transmission of signals with 24 V or 0-20 mA.

Legend: SAB NORTH AMERICA PROFIBUS L2/F.I.P. ES P/N 699008

22 AWG (SHIELDED) (UL) CMG FT4 75°C or CL3 SUN RES or AWM 21694 600V

item no.	no. of conductors	AWG	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft
▶ 699008	2	22/1	0.315 \pm 0.016	8.0 \pm 0.4	53

General construction:

Conductor:	bare copper wire (solid)
Insulation:	Foam-Skin PE
Color code:	red, green
Wrapping:	plastic tape
Inner jacket:	PVC
Wrapping:	alu foil and tinned copper braiding
Jacket:	voilet PVC

Technical data:

Voltage UL:	600V
Min bending radius:	15 x O.D.
Temperature range:	
<i>static:</i>	-40°C to +80°C
Burning characteristics:	flame retardant acc. to UL 1685 (CSA FT4), IEC 60332-3-24 (Cat. C)
Sunlight resistance:	acc. to UL 1581 Sec. 1200
Characteristic impedance 3 - 20 MHz:	150 Ω \pm 10%
Absence of harmful substances:	acc. to RoHS directive of the European Union

Electrical data at 20°C:

Loop resistance:	\leq 110 Ohm/km								
Screen resistance:	\leq 9.5 Ohm/km								
Insulation resistance:	\geq 16 GOhm*km								
Attenuation:	<table border="0"> <tr> <td>16 MHz</td> <td>\leq 42 dB/km</td> </tr> <tr> <td>4 MHz</td> <td>\leq 22 dB/km</td> </tr> <tr> <td>38.4 kHz</td> <td>\leq 4 dB/km</td> </tr> <tr> <td>9.6 kHz</td> <td>\leq 2.5 dB/km</td> </tr> </table>	16 MHz	\leq 42 dB/km	4 MHz	\leq 22 dB/km	38.4 kHz	\leq 4 dB/km	9.6 kHz	\leq 2.5 dB/km
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4 MHz	\leq 22 dB/km								
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9.6 kHz	\leq 2.5 dB/km								
Inductance (31.25 kHz):	\approx 1000 μ H/km								
Capacitance (1 kHz):	\approx 28,5 nF/km								