

# Profibus Cable



UDEY Pyrocables - Profibus Cable

## Profibus DP CABLE

### Standard

IEC 61158-2, IEC 60228, EN 50290, EN 50170, IEC 60332-1

### Design

<b>Conductor</b>	Solid bare copper 22 AWG As per VDE – 0295 Class – 1 IEC 60228 CI – 1
<b>Insulation</b>	Special PE
<b>Color Code</b>	Green - Red
<b>Screening</b>	AL-Foil (Aluminium Foil) 100% coverage + 20% overlap
<b>Braid</b>	Tinned Copper Wire Braid 85% coverage
<b>Outer Sheath</b>	PVC (LSZH also available)
<b>Outer Sheath Color</b>	Violet

\* This cable type is also available in armoured configuration.

# Profibus Cable



## Characteristics

<b>Voltage Rating</b>	350 V
<b>Test Voltage</b>	1500 V
<b>Temperature Rating</b>	Fixed: -30°C to +70°C Flexing: -5°C to +70°C
<b>Min. Bending Radius</b>	Fixed: 12 X OD Flexing: 20 X OD
<b>Flame Retardant</b>	IEC 60332-1 (Optional)
<b>Loop Resistance (Max.)</b>	110 $\Omega$ / km
<b>Insulation Resistance (Min.)</b>	5 M $\Omega$ X km
<b>Capacitance</b>	28.5 nF/Km @ 1kHz
<b>Impedance</b>	150 $\Omega$ +/- 15% @ 3 - 20 MHz
<b>Max. Length</b>	1200m @ 9.6- 93.75 kb/s 1000m @ 187.5 kb/s 400m @ 500 kb/s 200m @ 1.5 Mb/s 100m @ 3 - 12 Mb/s
<b>Attenuation</b>	
@ 16 MHz	$\leq$ 44 dB/ km
@ 4 MHz	$\leq$ 24 dB/ km
@ 38.4 kHz	$\leq$ 4.2 dB/ km
@ 9.6 MHz	$\leq$ 2.7 dB/ km

## Application

These cables are designed for industrial fieldbus systems particularly developed for process automation and instrumentation applications. It supports a wide range of Profibus DP applications

# Profibus Cable



## Profibus PA CABLE

### Standard

IEC 61158-2, IEC 60228, EN 50290, EN 50170, IEC 60332-1

### Design

<b>Conductor</b>	Solid bare copper 18 AWG As per VDE – 0295 Class – 1 IEC 60228 CI – 1
<b>Insulation</b>	Special PE
<b>Color Code</b>	Green - Red
<b>Screening</b>	AL-Foil (Aluminium Foil) 100% coverage + 20% overlap
<b>Braid</b>	Tinned Copper Wire Braid 85% coverage
<b>Outer Sheath</b>	PVC (LSZH also available)
<b>Outer Sheath Color</b>	Blue/ Black

\* This cable type is also available in armoured configuration.

# Profibus Cable



## Characteristics

<b>Voltage Rating</b>	350 V
<b>Test Voltage</b>	1500 V
<b>Temperature Rating</b>	Fixed: -30°C to +70°C Flexing: -5°C to +70°C
<b>Min. Bending Radius</b>	Fixed: 12 X OD Flexing: 20 X OD
<b>Flame Retardant</b>	IEC 60332-1 (Optional)
<b>Loop Resistance (Max.)</b>	44 Ω/ km
<b>Insulation Resistance (Min.)</b>	5 MΩ X km
<b>Capacitance</b>	60 nF/Km @ 1kHz
<b>Impedance</b>	100 Ω +/- 15% @ 31.25 kHz
<b>Attenuation</b>	≤ 3 dB/ km @ 39 kHz

Udey Pyro Part No.	Conductor	No. of Pairs	Armour (mm)	Nominal OD (mm)
<b>Profibus DP</b>				
UP23A2201	22 AWG	1	--	7.9
UP23A2201W	22 AWG	1	0.9	12.0
<b>Profibus PA</b>				
UP23A1801	18 AWG	1	--	7.6
UP23A1801W	18 AWG	1	0.9	11.5

\* The information mentioned in this document is for guidance only and is subjected to change without notice or liability. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.