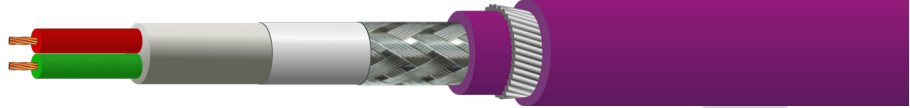
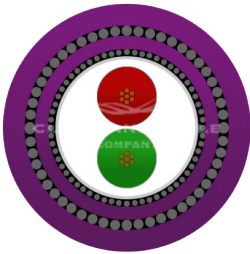


## PROFIBUS COMMUNICATION CABLE BS EN/IEC 61158



PROFIBUSDPSWA Pictured



### APPLICATION

PROFIBUS is standardised to IEC 61158 giving more interoperability of components from different manufactures. PROFIBUS cables are especially made for process automation (PA). The modular peripheral construction (DP: decentralised periphery) of the bus system simplifies installation and maintenance. Also available with a galvanised copper wire braid for mechanical strength and resistance to interference.

### CABLE STANDARDS

BS EN/IEC 61158  
BS EN 50170  
BS EN/IEC 60332-1  
BS EN/IEC 61034-2  
BS EN/IEC 60754-1

### CONSTRUCTION

**Conductor:** Stranded copper conductor  
**Insulation:** Polyethylene (PE)  
**Separator:** Polyester Tape (PET)  
**Filler:** Halogen free Compound  
**Screen:** Aluminium foil polyester tape wrapped by a galvanised copper wire braid  
**Inner sheath:** LSZH / PVC  
Refer to Dimensions table  
**Armour:** Gavanised Steel Wire (SWA)  
only on PROFIBUSDPSWA  
**Outer Sheath:** LSZH / PVC  
Refer to Dimensions table

### CHARACTERISTICS

**Voltage Rating:** 300 Volts  
(communication cable - not for power applications)  
**Temperature Limits:** Fixed: -40°C to +80°C  
**Minimum Bending Radius:** As per cable manufacturer datasheet

### CORE IDENTIFICATION

**Pair 1:** ■ Red ■ Green  
**Inner Sheath:** ■ Violet  
**Outer Sheath:** ■ Violet

Should not be installed at temperatures below 0°C

## PROFIBUS COMMUNICATION CABLE - DIMENSIONS

CCC CODE	NO OF CONDUCTORS	NUMBER OF PAIRS	STRANDING (MM)	WEIGHT (KG/KM)	CONSTRUCTION	OVERALL DIAMETER
PROFIBUSDP	2	1	AWG 22	85	PVC/PVC	7.9
PROFIBUSDPLSF	2	1	AWG 22	85	LSZH/LSZH	7.9
PROFIBUSDPSWA	2	1	AWG 22	160	PVC/PVC	11.5

## PROFIBUS COMMUNICATION CABLE – ELECTRICAL CHARACTERISTICS

CONDUCTOR DCR	SHIELD DCR	CONDUCTOR TO CONDUCTOR CAPACITANCE	CONDUCTOR TO SHIELD CAPACITANCE	INDUCTANCE	MAX RESISTANCE OF CONDUCTOR AT 20°C
39.4Ω/KM	30.5Ω/KM	180.4pF/M	311.6 pF/M	0.557 μH/M	30.51

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.