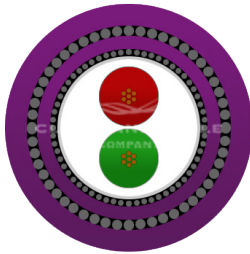
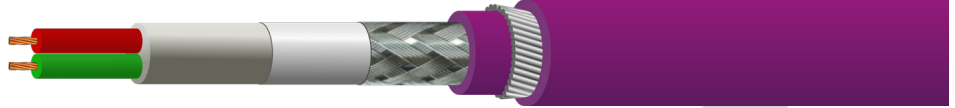


PROFIBUS COMMUNICATION CABLE BS EN/IEC 61158



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.