

# PROFIBUS Communication Cable BS EN/IEC 61158



## Description

PROFIBUS is standardised to IEC 61158 giving more interoperability of components from different manufacturers. 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.

## **Key Features**



Voltage Rating 300/300 Volts



Minimum Bending Radius Fixed: 8 x overall diameter Flexing: 12 x overall diameter



**Temperature Limits** Fixed: -40°C to +80°C

#### **Core Colours**



Inner Sheath: Viole

Outer Sheath: Violet

#### **Standards**

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

#### Construction

- Conductor: Stranded copper conductor
- Insulation: Polyethylene (PE)
- Filler: Plastic Tape (PT)
- Armour: Galvanised Copper Wire Braid, SWA only on PROFIBUSDPSWA
- Sheath: LSZH / PVC refer to Products

## **QA Lab**

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







#### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



# **Our Sustainability Commitment**

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

# ecovadis





















# PROFIBUS Communication Cable BS EN/IEC 61158 - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
PROFIBUSDP	0.65	2	7/0.245	7.9	85
PROFIBUSDPSWA	0.65	2	7/0.245	11.5	160

















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## PROFIBUS COMMUNICATION CABLE - ELECTRICAL CHARACTERISTICS

CONDUCTOR DCR	SHIELD DCR	CONDUCTOR TO CONDUCTOR CAPACITANCE	CONDUCTOR TO SHIELD CAPACITANCE	INDUCTANCE	MAX RESISTANCE OF CONDUCTOR AT 20 <sup>0</sup> C
Ω/ΚΜ	Ω/ΚΜ	F/M	pF/M	μH/M	Ω/ΚΜ
39.4	30.50	180.4p	311.60	0.56	30.51

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