

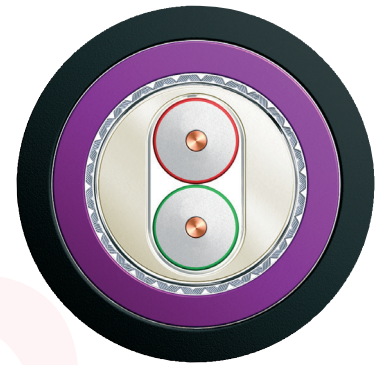
PROFIBUS DP

for Outdoor Applications (HDPE)



Application

This dual jacket Profibus DP cable is suitable for outdoor applications installed in ductwork, pipes, open tray or direct in the ground where mechanical stress is at a minimum. The cable benefits from UV & water resistance. The inner cable carries a CPR class of Cca meaning once the outer jacket is removed the cable can be run inside the building and still meet stringent CPR regulations.



Cable Design

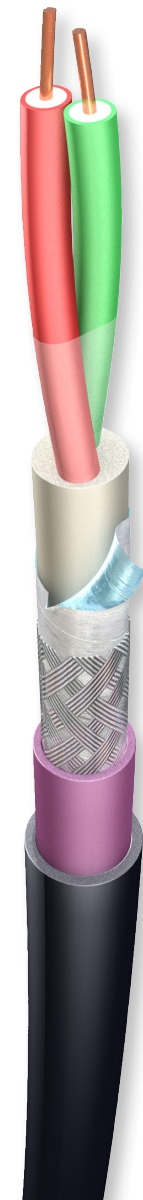
Wire

Conductor Solid bare copper wire (22/1awg) Ø 0,64 mm
 Insulation Foamed Polyethylene (PE) Ø 2,55 mm

Core

Pair 2 wires twisted to a pair (RD-GN)
 Tape Plastic tape overlapped
 Inner Jacket Thermoplastic copolymer Ø 5,95 mm
 Screen Alulaminare foil overlapped
 Braid Tinned copper wire braid, 65% coverage Ø 6,50 mm
 Inner Jacket Low Smoke Zero Halogen (LSZH) Ø 7,90 ± 0,40 mm

Outer Jacket High Density Polyethylene (HDPE) Ø 9,90 ± 0,40 mm



Characteristics

- UV, Water and Oil Resistant

Specification

Part Number	Type
PDP122-DGP	PROFIBUS DP cable for outdoor applications. 22/1AWG. HDPE

PROFIBUS DP

for Outdoor Applications (HDPE)

Electrical Data @ 20°C

Loop resistance		≤	110	Ohm/km
Screen resistance		≤	9,5	Ohm/km
Insulation resistance		≥	16	GOhm*km
Characteristic Impedance	3-20 MHz		150±15	Ohm
Attenuation	16 MHz	≤	42	dB/km
Attenuation	4 MHz	≤	22	dB/km
L/R Ratio		≤	15	μH/Ohm
Inductance Value			900	μH/km
Capacitance (1 kHz)		≈	28,5	nF/km
Operating voltage (effective value)		≤	100	V
Rel. Velocity of Propagation		≈	81	%
Test Voltage (DC 3 sec)		=	3600	V

Mechanical & Thermal Characteristics

Permissible temperature range			-40 ~ +60	°C
Min. Bending radius allowed	repeated		15	x Ø
Min. Bending radius allowed	single		7,5	x Ø
Pulling force with		≤	100	N
Weight (approx.)			117	kg/km

Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.