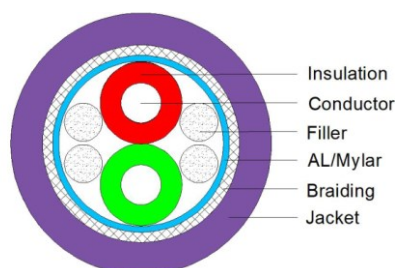


Draka Basic PROFIBUS DP



- not to scale -

Application

Data Cable for PROFIBUS DP with 150Ω nominal impedance designed for fixed installation in application such as process control and automation.

Standards

IEC 61158-2

LSZH: IEC60332-3-24, IEC 60754-1 & 2; IEC 61034-2

Construction

Conductor	Solid Bare Copper Wire, 22AWG	
Insulation	Foam- PE	$\varnothing 2.55 \pm 0.1 \text{ mm}$
Color code	Pair 1: Red x Green	
Filler	PP	
Static Screen	Aluminum Polyester Foil (Coverage 100%)	Overlapping $\geq 25\%$
Braid Shield	Tinned Copper Braid	Coverage $\geq 65\%$
Sheath	LSZH	$\varnothing 7.8 \pm 0.4 \text{ mm}$
Sheath Wall Thickness	Nom. 1.0mm Min. 0.75mm	
Sheath color	Violet (RAL 4001)	

Mechanical Properties

Min. Bend radius	8 x OD
Operating temperature:	-40°C to 80°C
Installation temperature:	-20°C to 60°C
UV Resistance	UL 1581 (300H)
Halogen Free	IEC 60754-1 & IEC 60754-2
Flame Retardant	IEC 60332-3-24, IEC 60332-1

Electrical Properties

Conductor Resistance	$\leq 55 \Omega/\text{km}$ (at 20°C)
Insulation DC Resistance	$\geq 1\text{G}\Omega.\text{km}$
Capacitance Cond. To Cond. (Mutual Capacitance)	Nom. 30 pF/m (at 800kHz)
Characteristic Impedance	$270\Omega \pm 27\Omega$ (at 9.6 kHz)
	$185\Omega \pm 18.5\Omega$ (at 38.4 kHz)
	$150\Omega \pm 15\Omega$ (at 3 to 20MHz)
Attenuation Loss	$\leq 2.5 \text{ dB/km}$ (at 9.6kHz)
	$\leq 3.8 \text{ dB/km}$ (at 38.4kHz)
	$\leq 11.0 \text{ dB/km}$ (at 200kHz)
	$\leq 22.0 \text{ dB/km}$ (at 4MHz)
	$\leq 42.0 \text{ dB/km}$ (at 16MHz)
Velocity of Propagation	Nom. 78%
Dielectric Strength	2000V (1 min.), no breakdown
Voltage (IEC/EN)	300V RMS

Ordering Information

UC Part Number	SAP1C	Description	P.U
PDP122FLVVL-5H	TBC	PROFIBUS DP DATA COMMUNICATION CABLE BC/FPE/OS/TCB/LSZH UV 1PAIR 22AWG VIOLET	500m/reel

Marking:

Marked in 1 meter intervals with inkjet printing as follows:

Draka MMS PROFIBUS DP <Part Number> <Pair Qty>P <XX>AWG <LSZH> <FC> <BATCH CODE> <XXX>M

<XX>: denotes conductor size in AWG

<FC> : Draka defined factory Code

<BATCHCODE>: Factory defined tracking code MM/YYYY or WW/YYYY

<XXX> : increasing length marking by 1metre

Logistic

Packing:

Wooden drum with protection

Delivery lengths:

Standard delivery length is 500m per drum \pm 5%.

Enquiries

Please contact our local sales office or email to: mms.asia@prysmiangroup.com

Multimedia Solutions is the data communication portfolio of Prysmian Group and comprises all the necessary portfolio of cable solutions for data communication.

Ask about UC CONNECT for a complete Structure Cabling Solutions with 25 Years System Warranty.

Visit www.drakauc.com for more information.

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