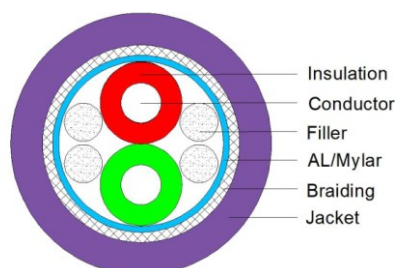


## Draka Basic PROFIBUS DP



- 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-5HM	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](mailto: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](http://www.drakauc.com) for more information.

© PRYSMIAN GROUP 2022, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.