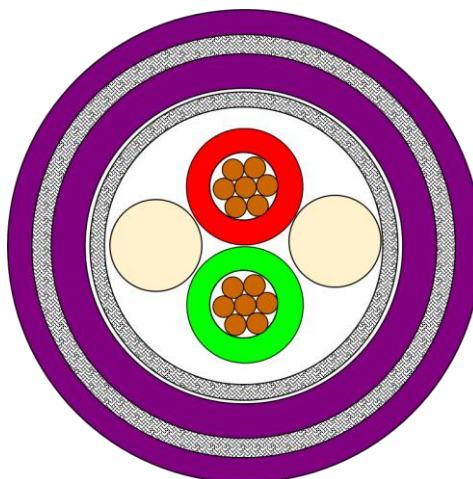


# ICS PB DP AWG22/7 LSHF SWB

## PROFIBUS cable



## Application

Armoured indoor and outdoor installation cable:

- Flame retardant
- Limited segment length (according to PROFIBUS-Net Manual)
- UV-stabilized
- Oil resistant: IRM 902 (IEC60811-2-1): 7 days/23°C, 4 hours/70°C Diesel -IRM 903 (IEC60811-2-1): 7 days/23°C, 4 hours/70°C

## Standards

EN 50170 part 8-2, cable type A, IEC 61158 and IEC 61784

## Reaction to fire

IEC 60332-1, IEC 60332-3-22

## Construction

Conductor	stranded bare copper wires, 7x0.26 Ø 0.78 mm, (cross-section approx. 0.37mm <sup>2</sup> )	
Insulation	foam-skin-PE, Ø 2.55 mm	
Layup	2 cores twisted as pair, plastic fillers used to keep round geometry	
Static screen	PET-Al-Foil longitudinally applied with overlap + tinned copper drain wire	
Braid	tinned copper braid, coverage 65%	
Inner sheath	LSHF flame retardant thermoplastic sheathing compound, violet, RAL 4005 Ø 8.0 mm	
Braid	Braid armour of 0.25mm Galvanized steel wires, coverage 85%	
Outer sheath	LSHF flame retardant thermoplastic sheathing compound, violet, RAL 4005 Ø 12.0 mm	
Marking	DRAKA ICS PB DP Basic 1x2xAWG22/7 LSHF SWB + batch number + meter marking	

## Mechanical properties

Bending radius	single bending	≥ 120 mm
	repeated bending	≥ 240 mm
Temperature range		- 10°C to + 75°C
Transport and storage		- 10°C to + 75°C
Installation		- 5°C to + 50°C

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### Electrical properties

at 20°C

Ohmic resistance	$\leq 55 \Omega/\text{km}$ (loop $R \leq 110\Omega$ )
Screen resistance nominal	$\leq 9.5 \Omega/\text{km}$
Characteristic impedance nominal)	$150 \pm 20 \Omega$
Mutual capacitance (at 1 kHz)	nominal 28,5 nF/km
Insulation resistance	$\geq 5 \text{ G}\Omega\text{km}$
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (acc UL 758)	300 Vrms

### Electrical data

at 20°C

Frequency	Impedance (Ohm)	Attenuation (dB/100m)		
9,6 kHz	$270 \pm 27$	$\leq 0.3$		
38,4 kHz	$185 \pm 18.5$	$\leq 0.4$		
1 MHz				
3 MHz	$150 \pm 15$			
4 MHz	$150 \pm 15$	$\leq 2.5$		
16 MHz	$150 \pm 15$	$\leq 4.9$		
20 MHz	$150 \pm 15$			

### Technical data

Project	Cable type DIN/VDE	Type	Product name	Outer Diameter mm	Weight kg/km	Standard delivery length m	Copper content	Tensile force N
90151154.02	02YS(St) CHCH	1x2x0.78L/ 2.55-150	ICS PB DP 1P AWG22/7 LSHF SWB	12.0	211	1000	24	400

\*PWD (Plywood Drum)

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