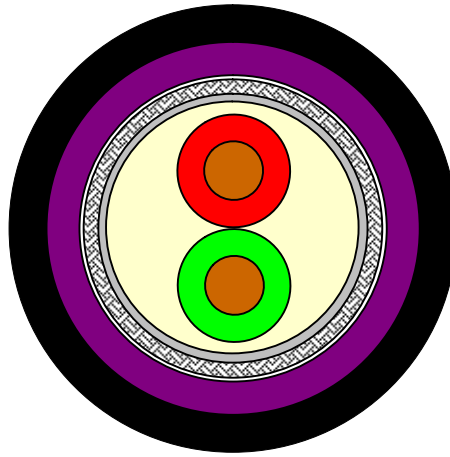


## ICS PB DP FC 1x2xAWG22/1 PE

### PROFIBUS DP FC PE sheathed Cable



### Application

- Outdoor installation cable, also for direct burial :
- Limited segment length (according to PROFIBUS-Net Manual)
  - FastConnect-assembly
  - UV-resistant
  - Silikon free
  - Limited oil and grease resistance

### Standards

EN 50170 part 8-2 Cable type A, IEC 61158 und IEC 61784  
IEC 60754-2; IEC 61034

### Flame Resistance

### Construction

|               |  |
|---------------|--|
| Conductor     | bare copper wire, $\varnothing$ 0.64 mm, (cross-section 0.32 mm <sup>2</sup> )   |
| Insulation    | foam-skin-PE, $\varnothing$ 2.5 mm   |
| Stranding     | two cores gn / rd to the Pair  |
| Bedding       | halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, filling the interstices $\varnothing$ 5.4 mm |
| Static screen | PET-Al-Foil longitudinally applied   |
| Braid         | tinned copper braid, coverage approx. 70%  |
| Sheath        | halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, violet, RAL 4005 $\varnothing$ 8.0 mm        |
| Outer sheath  | PE, $\varnothing$ 11.0 mm  |
| Colour        | black, RAL 9005  |
| Marking       | DRAKA ICS PB DP FC 1x2xAWG22/1 PE, batch number and meter marking  |

## ICS PB DP FC 1x2xAWG22/1 PE

### Mechanical properties

|                   |                                       |   |
|-------------------|---------------------------------------|---|
| Bending radius    | single bending<br>repeated bending    | ≥ 60 mm<br>≥ 120 mm                                     |
| Temperature range | Transport and storage<br>Installation | - 30°C to + 70°C<br>- 30°C to + 70°C<br>- 5°C to + 50°C |

### Electrical properties

at 20°C

|   |                    |
|---|--------------------|
| Loop resistance                                       | ≤ 110 Ω/km         |
| Screen resistance nominal                             | 12 Ω/km            |
| Characteristic impedance nominal)                     | 150 Ω              |
| Mutual capacitance (at 1 kHz)                         | approx. 28,5 nF/km |
| Capacitance unbalance to earth max.                   | 1.5 nF/km          |
| Insulation resistance                                 | ≥ 5 GΩkm           |
| Test Voltage (DC, 1 min)<br>Core/Core and Core/Screen | 1 kV               |
| Operating voltage (RMS)                               | ≤ 100 V            |
| Inductance (nominal)                                  | 0.90 mH/km         |

### Electrical data

at 20°C

| Frequency | Impedance (Ohm) | Attenuation (dB/100m) |  |  |
|-----------|-----------------|-----------------------|--|--|
| 9,6 kHz   | 270 ± 27        | ≤ 0.25                |  |  |
| 38,4 kHz  | 185 ± 18.5      | ≤ 0.4                 |  |  |
| 1 MHz     |                 |                       |  |  |
| 3 MHz     | 150 ± 15        |                       |  |  |
| 4 MHz     | 150 ± 15        | ≤ 2.2                 |  |  |
| 16 MHz    | 150 ± 15        | ≤ 4.2                 |  |  |
| 20 MHz    | 150 ± 15        |                       |  |  |

### Technical data

| Part number | Cable type DIN/VDE | Type                  | Product name                | Outer diameter | Weight | Standard delivery length | Drum size (mm) PWD* | Gross weight | Copper content | Tensile force |
|-------------|--------------------|-----------------------|-----------------------------|----------------|--------|--------------------------|---------------------|--------------|----------------|---------------|
|             |                    |                       |                             | mm             | kg     | m                        |                     | kg           |                | N             |
| 1025046     | 02YSH(ST)CH2Y      | 1 x 2 x 0.64/2.55-150 | ICS PB DP FC 1x2xAWG22/1 PE | 11.0           | 113    | 1000                     | 770x360x560         | 130          | 24.3           | 120           |

\*PWD (Plywood Drum)

[PRODUCT CODE TABLE]

**ICS PB DP FC 1x2xAWG22/1 PE**

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