

# IBS PWR/5HD/F

Highly flexible supply cable

## AUTOMATION

Data sheet  
7811\_en\_00

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### 1 Description

IBS PWR/5HD/F is a heavy duty power supply cable with a conductor cross-section of  $5 \times 1.5 \text{ mm}^2$ . As the cable is resistant to welding splashes it can also be used in harsh industrial environments. The high flexibility of the cable permits to use the cable in drag chains as well as under torsional load, for instance applications with robots.

The cable has been designed for the insulation displacement connection system from Phoenix Contact. Secure electrical contacting is ensured together with the bus connectors of the Rugged Line range, IBS RL PLUG ...

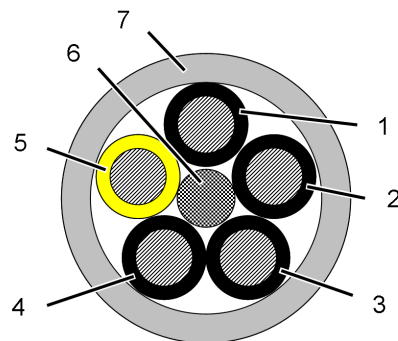


Figure 1 Cable design

#### Key for Figure 1:

- |                 |                      |
|-----------------|----------------------|
| 1 Wire 1, black | 5 Wire 5, yellow     |
| 2 Wire 2, black | 6 Wadding            |
| 3 Wire 3, black | 7 Outer cable sheath |
| 4 Wire 4, black |                      |



Make sure you always use the latest documentation.

It can be downloaded at [www.download.phoenixcontact.com](http://www.download.phoenixcontact.com).

A conversion table is available on the Internet at [www.download.phoenixcontact.com/general/7000\\_en\\_00.pdf](http://www.download.phoenixcontact.com/general/7000_en_00.pdf).

## 2 Ordering data

### Product

Description	Type	Order No.	Pcs./Pkt.
Highly flexible supply cable	IBS PWR/5HD/F	2731775	Sold by the meter

## 3 Technical data

### Individual wire

Material	Bare Cu litz wire
Litz wire structure	30 x 0.25 mm
Conductor cross-section	1.5 mm <sup>2</sup>
Conductor insulation	Polyethylene (PE), halogen-free
Outer wire diameter (including insulation)	2.8 mm
Number of wires	5

### Outer sheath

Material	Polyurethane (PUR)
Color	Window gray (RAL 7040)
Outer diameter (including insulation)	9.9 mm
Imprinting color	Black
Imprinting	



Phoenix Contact 2731775 IBS PWR/5 HD-FLEX

### Mechanical and thermal properties

Resistant to welding splashes	In standard applications
Suitable for use with drag chains	Yes
Torsion capability	Yes
Suitable for insulation displacement connection systems	Suitable for Phoenix Contact QUICKON connection
Oil-resistant	Yes
Flame-retardant	Yes
Halogen-free	Yes
PVC-free	Yes
Free of substances that would hinder coating with paint or varnish	Yes
Permissible temperature range	-20°C to +70°C
Weight	130 g/m
Bending radii	
Minimum bending with single movement when installed	20 mm
Minimum bending radius with permanent movement	50 mm
Optimum bending radius with permanent movement	100 mm

### Electrical properties

Operating voltage	600 V
Test voltage wire/wire	3000 V DC, 1 min (VDE 0472-509, test type C)