

System cable - FLK 16/EZ-DR/ 50/KONFEK/S - 2318075

<https://www.phoenixcontact.com/in/products/2318075>

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Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 16-position) (The braided shield is routed to a separate cable end.); cable length: 0.5 m

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Commercial Data

Order Key	2318075
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK2
GTIN	4046356291736
Weight per Piece (including packing)	57.8 GRM
Weight per Piece (excluding packing)	56.3 GRM
Customs tariff number	85444290
Country of origin	DE

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Technical Data

Product properties

Insulation characteristics

Overvoltage category	II
Pollution degree	2
Insulation	Functional insulation

Ambient conditions

Degree of protection	IP00 ≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C (fixed installation) -10 °C ... 70 °C (flexible installation)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Resistance to oil	can withstand occasional splashes (raw cable)

Electrical properties

Max. permissible operating voltage	25 V AC 60 V DC
Nominal operating mode	100% operating factor
Max. current carrying capacity per path	1 A (50 °C) 0.6 A (70°C)
Rated insulation voltage	63 V
Rated surge voltage	0.6 kV

Cable / line

Cable specification	Cable for one module
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Cable structure

Cable, preassembly	Insulation displacement, IEC 60352-4/DIN EN 60352-4
Type of cable	Assembled shielded round cable
External cable diameter	7 mm ±0.4 mm
Outer sheath, material	Semi-rigid PVC
External sheath, color	gray
Single wire, number of litz wires	7
Single wire, material	Cu tin-plated
Wire diameter incl. insulation	1 mm ±0.03 mm
Single wire, cross section	0.14 mm²
Single wire, cross section [AWG]	26
Shielding	yes
Shielding	Tinned copper-braided shield, approx. 85% covering

Electrical properties

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Conductor resistance	≤ 145 Ω/km (20 °C)
Cable insulation resistance	≥ 20 MΩ/km (20 °C)

Mechanical properties

Smallest bending radius, fixed installation	74 mm
Smallest bending radius, movable installation	133 mm
Bending cycles	5000 (at a radius of ≥ 15x outside diameter)

Ambient conditions

Halogen-free	No
Resistance to oil	can withstand occasional splashes (raw cable)
Flame resistance	IEC 60332-1-2 (raw cable)
	VDE 0842, Part 332-1-2 (raw cable)
	IEC 60332-3-22 (raw cable)
	UL VW-1
	CSA FT-1

Connection data

Field level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	16
Note	The braided shield is routed to a separate cable end.
	The separate cable end is approximately 0.5 m long (H05V-K 1 mm², black)
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Controller level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK socket strip
Number of connections	1
Number of positions	16
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Standards and regulations

Gasoline resistance	can withstand occasional splashes (raw cable)
Flame resistance	IEC 60332-1-2 (raw cable)
	VDE 0842, Part 332-1-2 (raw cable)
	IEC 60332-3-22 (raw cable)
	UL VW-1
	CSA FT-1

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Resistance to oil	can withstand occasional splashes (raw cable)
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Air clearances and creepage distances

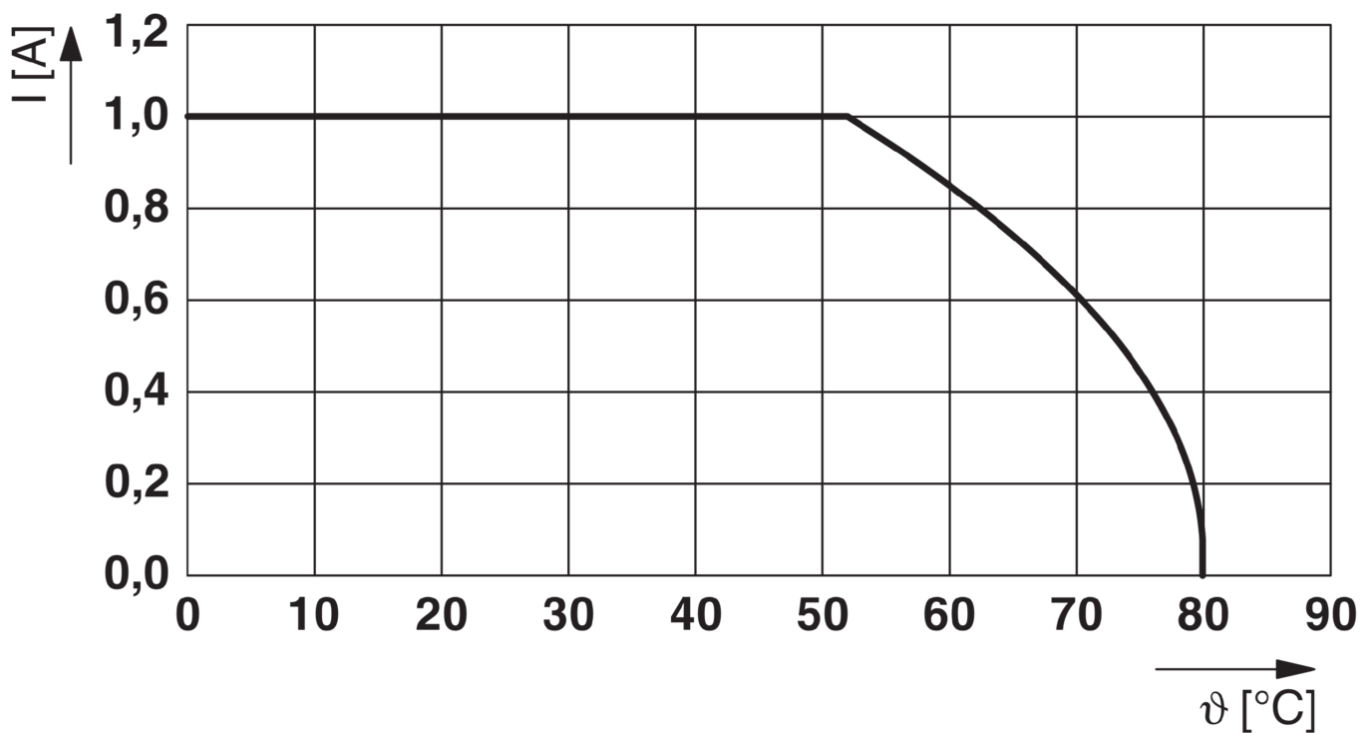
Standards/regulations	DIN EN 50178
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Drawings

Diagram



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Approvals

UL Listed 

Nominal voltage U_N	125 V
Nominal current I_N	1 A

cUL Listed 

Nominal voltage U_N	125 V
Nominal current I_N	1 A

EAC 

cULus Listed

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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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