

SPECIAL INDUSTRIAL ETHERNET CABLES CAT 5

DR PN 689 P Highflex reeling profinet cable

S PN 668 Hybrid Hybrid cable with UL approval

RT PN 668 Profinet cable suitable for robots



Industrial Ethernet is a young and quickly developing network technology. Ethernet with the worldwide accepted **TCP/IP** (Transmission Control Protocol/Internet Protocol) will be the future connection to the well established field bus or sensor / actuator level. Depending on the application, we are able to offer today CAT 5 cable solutions for flexible and continuous flexible use, for chemical and thermal stress as well as special cable constructions for reeling purpose and robot operation.

Marking for DR PN 689 P Highflex:
SAB BRÖCKSKES · D-VIERSEN · DR PN 689 P Highflex 2x2x22AWG CE

item no.	type	dimensions	nominal outer- ϕ inch	mm	cable weight \approx lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. Ω /km
▶ 06892202	DR PN 689 P Highflex	22 AWG/4c	0.311	7,9	55	58.0
▶ 06689010	S PN 668 Hybrid	22 + 16 AWG/8c	0.394	10,0	106	58.0 / 13.3
▶ 06689001	RT PN 668	22 AWG/4c	0.276	7,0	42	58.0

Other dimensions and colors are possible on request.

Construction:	DR PN 689 P Highflex <i>reeling Profinet cable</i>	S PN 668 Hybrid <i>Hybrid cable type C continuously flexible</i>	RT PN 668 <i>Profinet cable suitable for robots</i>
Dimension:	2 x 2 x 22 AWG	2 x 2 x 22 AWG + 4 x 16 AWG	2 x 2 x 22 AWG
Conductor:	tinned copper strands, fine wires with reference to VDE 0812	22 AWG: tinned copper strands, extra fine wires 16 AWG: bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6	tinned copper strands, extra fine wires
Insulation:	SABIX® 151	22 AWG: SABIX® 151. 16 AWG: TPE 531	SABIX® 151
Color code:	blue, yellow, white, orange	22 AWG: blue, yellow, white, orange. 16 AWG: black conductors with consecutive numbers acc. to EN 50334	blue, yellow, white, orange
Stranding:	in layers	22 AWG: in layers together in layers	in layers
Wrapping:	PETP foli		netting tape, alu foil
Inner sheath:	SABIX® 322		---
Wrapping:	alu foil		---
Screen:	tinned copper braiding		
Wrapping:	non-woven tape		
Outer sheath:	PUR / supporting braid / PUR	PUR	PUR
Sheath color:	green (similar RAL 6018)		

Technical data:	DR PN 689 P Highflex <i>reeling Profinet cable</i>	S PN 668 Hybrid <i>Hybrid cable type C continuously flexible</i>	RT PN 668 <i>Profinet cable suitable for robots</i>
Item number:	0689-2202	0668-9010	0668-9001
Peak operating voltage VDE:	max. 350 V		
Voltage: UL:	---	300 V	---
Testing voltage:	conductor/conductor 1500 V, conductor/screen 1200 V		
Temperature range VDE fixed laying: flexible application:	- 40°C / + 90°C - 30°C / + 90°C	UL: up to + 80°C - 40°C / + 90°C - 30°C / + 90°C	- 40°C / + 90°C - 30°C / + 90°C
Min. bending radius	for laying and installation (fixed laying): 5 x d for repeated winding action (flexible): 10 x d guided on deflection pulleys (flexible): 12 x d	fixed laying: 5 x d flexible application: 10 x d continuously flexible: 12 x d	fixed laying: 5 x d flexible application: 10 x d torsion angle \pm 180°/m
Characteristic impedance:	100 Ω \pm 10 Ω , accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)		
Zero halogen:	acc. to DIN VDE 0472 part 815 + IEC 60754-1		
Oil resistance:	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10		
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24 see page N/25		

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