

SPECIAL INDUSTRIAL ETHERNET CABLES CAT 5

DR PN 689 P Highflex reeling profinet cable

S PN 668 Hybrid Hybrid cable with UL recognition **RT PN 668** Profinet cable suitable for robots



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

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 and CAT 6 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.

item no.	type	dimesions AWG	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km
▶ 06892202	DR PN 689 P Highflex	22 (≈ 19/34)/4c	0.311	7.9	55	58.0
▶ 06689010	S PN 668 Hybrid	22 (≈ 19/34) + 16 (≈ 84/34)/8c	0.394	10.0	106	58.0 / 13.3
▶ 06689001	RT PN 668	22 (≈ 19/34)/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	PE
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 jacket:	SABIX® 322		---
Wrapping:	alu foil		---
Screen:	tinned copper braiding		
Wrapping:	non-woven tape		
Outer jacket:	PUR / supporting braid / PUR	PUR	
Jacket 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 / + 70°C - 30°C / + 70°C
Min. bending radius	for laying and installation (fixed laying): 5 x O.D. for repeated winding action (flexible): 10 x O.D. guided on deflection pulleys (flexible): 12 x O.D.	fixed laying: 5 x O.D. flexible application: 10 x O.D. continuously flexible: 12 x O.D.	fixed laying: 5 x O.D. flexible application: 10 x O.D. torsion angle ± 180°/m
Characteristic impedance:	100Ω ± 10Ω, 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 directive of the European Union, see page N/28		

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