

Industrial Ethernet Cables

DR PN 689 P Highflex PUR Reeling Profinet cable/ CAT 5 cable

S PN 668 PUR Hybrid cable continuous flex suitable for cable tracks with UL recognition

RT PN 668 PUR Profinet cable suitable for robots

S · D-VIERSEN · DR PN 689 P Highflex 2x2x22AWG CE



Marking for DR PN 689 P Highflex 6892202:

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



Construction:	DR PN 689 P Highflex reeling Profinet cable	DR PN 689 P Highflex reeling CAT 5 cable	S PN 668 Hybrid Hybrid cable CAT 5 type C continuous flex	RT PN 668 Profinet cable suitable for robots
Item numbers:	6892202	6899001	6689010	6689001
Dimensions:	2 x 2 x 22 AWG	4 x 2 x 26 AWG	2 x 2 x 22 AWG + 4 x 16 AWG	2 x 2 x 22 AWG
Conductor:	tinned copper strands, fine wires	tinned copper strands, fine wires	22 AWG: tinned copper strands, extra fine wires 16 AWG: bare copper strands acc. to IEC 60228, VDE 0295, class 6	tinned copper strands, extra fine wires
Insulation:	SABIX®	SABIX®	22 AWG: SABIX® 16 AWG: TPE	special polymer
Color code:	blue, yellow, white, orange	blue, orange, green, brown + 4 white conductors with consecutive numbers	22 AWG: blue, yellow, white, orange 16 AWG: black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334	blue, yellow, white, orange
Stranding:	in layers	twisted to pairs and pairs together	22 AWG: in layers/ together in layers	star quad
Wrapping:	PETP foil	PETP foil	22 AWG: PETP foil	tape
Inner jacket:	SABIX®	SABIX®	22 AWG: SABIX®	—
Wrapping:	alu foil	alu foil	22 AWG: alu foil	alu foil
Shielding:	tinned copper braiding	tinned copper braiding	—	tinned copper braiding
Wrapping:	non-woven tape	non-woven tape	22 AWG: non-woven tape	non-woven tape
Wrapping:	—	—	overall non-woven tape	—
Jacket material:	PUR/supporting braid/PUR	PUR/supporting braid/PUR	PUR	PUR
Jacket color:	green (similar RAL 6018)	black (similar RAL 9005)	green (similar RAL 6018)	green (similar RAL 6018)

Technical data:	DR PN 689 P Highflex reeling Profinet cable	DR PN 689 P Highflex reeling CAT 5 cable	S PN 668 Hybrid Hybrid cable type C continuous flex	RT PN 668 Profinet cable suitable for robots
Peak operating voltage:	max. 350 V	max. 350 V	max. 350 V	max. 350 V
Voltage UL:	—	—	300 V	—
Testing voltage: conductor/conductor: conductor/shielding:	1500 V 1200 V	1500 V 1200 V	2000 V 2000 V	1500 V 1200 V
Min. bending radius:	for laying and installation (fixed installation): for repeated winding action (flexible): guided on deflection pulleys (flexible):	5 x O.D. 10 x O.D. 12 x O.D.	fixed installation: 5 x O.D. flexible: 10 x O.D. continuous flex: 12 x O.D.	flexible: 10 x O.D. torsion angle: ± 360°/m
Temperature range DIN VDE: static: flexible:	-40/+90°C -30/+90°C	-40/+90°C -30/+90°C	UL: up to +80°C -40/+90°C -30/+90°C	-40/+70°C -30/+70°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 + VDE 0819-2-2 (CAT 5 acc. to EN 50173-1)			
UL Style:	—	—	20233	—
Application:	suitable for EtherCAT and EtherNET/IP applications		—	—
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30			

item no.	type	jacket color	dimensions AWG	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. Ω/km
▶ 6892202	DR PN 689 P Highflex	green (similar RAL 6018)	22 (≈ 19/34)/2pr	0.323	8.2	56	58.8
▶ 6899001	DR PN 689 P Highflex	black (similar RAL 9005)	26 (≈ 19/38)/4pr	0.343	8.7	57	139
▶ 6689010	S PN 668 Hybrid	green (similar RAL 6018)	22 (≈ 19/34)/2pr + 16 (≈ 84/34)/4c	0.394	10.0	106	58.0 / 13.3
▶ 6689001	RT PN 668	green (similar RAL 6018)	22 (≈ 19/34)/2pr	0.276	7.0	42	58.0

Other dimensions and colors are available on request



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