

# INDUSTRIAL ETHERNET CABLES CAT 5

**DR PN 689 P Highflex** reeling Profinet cable / CAT 5 cable

**DR CB 689 P Highflex** reeling CAN-Bus cable

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



Marking for DR PN 689 P Highflex:

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

<b>Construction:</b>	DR PN 689 P Highflex <i>reeling Profinet cable</i>	DR PN 689 P Highflex <i>reeling CAT 5 cable</i>	DR CB 689 P Highflex <i>reeling CAN-Bus cable</i>
<b>Dimension:</b>	2 x 2 x 22 AWG	4 x 2 x 26 AWG	2 x 2 x 0,50 mm <sup>2</sup>
<b>Conductor:</b>	tinned copper strands, fine wires		
<b>Core insulation:</b>	SABIX®		PE
<b>Colour code:</b>	blue, yellow, white, orange	blue, orange, green, brown + 4 white cores with consecutive numbers	acc. to DIN 47100
<b>Stranding:</b>	in layers	in pairs	
<b>Wrapping:</b>	PETP foli		non-woven tape
<b>Inner sheath:</b>	SABIX®		---
<b>Wrapping:</b>	alu foil		---
<b>Screen:</b>	tinned copper braiding		
<b>Wrapping:</b>	non-woven tape		---
<b>Outer sheath:</b>	PUR / supporting braid / PUR		
<b>Sheath colour:</b>	green (similar RAL 6018)	black (similar RAL 9005)	

<b>Technical data:</b>	DR PN 689 P Highflex <i>reeling Profinet cable</i>	DR PN 689 P Highflex <i>reeling CAT 5 cable</i>	DR CB 689 P Highflex <i>reeling CAN-Bus cable</i>
<b>Item number:</b>	0689-2202	0689-9001	0689-9005
<b>Peak operating voltage VDE:</b>	max. 350 V		
<b>Testing voltage:</b>	core/core 1500 V - core/screen 1200 V		
<b>Temperature range VDE</b> fixed laying: flexible application:	- 40°C / + 90°C - 30°C / + 90°C		- 40°C / + 70°C - 40°C / + 70°C
<b>Min. bending radius</b>	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		for laying and installation (fixed laying): 5 x d for repeated winding action (flexible): 7,5 x d guided on deflection pulleys (flexible): 10 x d
<b>Characteristic impedance:</b>	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)		120Ω (95 - 140Ω) at 1 MHz
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 + IEC 60754-1		
<b>Oil resistance:</b>	TMPU acc. to EN 50363-10-2		
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page N/17		

item no.	type	dimension	outer-ø approx. mm	copper figure kg/km	cable weight ≈kg/km	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km	tensile strength max. N	characteristic impedance
06892202	DR PN 689 P Highflex	2 x 2 x 22 AWG	7,8	36,2	78	58,8	200	100Ω
06899001	DR PN 689 P Highflex	4 x 2 x 26 AWG	8,7	34,3	85	139	200	100Ω
06899005	DR CB 689 P Highflex	2 x 2 x 0,50 mm <sup>2</sup>	13,0	48,8	175	39,0	200	120Ω

Other dimensions and colours are possible on request.