INDUSTRIAL ETHERNET CABLES CAT 5

PN 655 Profinet type A, for fixed installation with UL recognition

PN 661 Profinet type B, for flexible applications with UL recognition

S PN 668 Profinet type C, continuous flex with UL recognition

Marking for S PN 668:
SAB BRÖCKSKES · D-VIERSEN · S PN 668 Profinet CAT 5 Typ C 2x2x22AWG

Industrial Ethernet is a quickly developing network technology. Ethernet with the worldwide accepted **TCP/IP** (**T**ransmission **C**ontrol **P**rotocol/**I**nternet **P**rotocol) 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, CAT 6 and CAT 7 cable solutions for flexible and continuous flex 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
► 06552202	PN 655	22/4c	0.232	5.9	34	58.0
► 06612202	PN 661	22 (≈ 7/30)/4c	0.260	6.6	47	58.0
► 06682202	S PN 668	22 (≈ 19/34)/4c	0.252	6.4	39	58.0

Other dimensions and colors are possible on request.

Construction:	**PN 655 Profinet type A** *fixed laying*	**PN 661 Profinet type B** *flexible*	**S PN 668 Profinet type C** *continuous flex*
Item number:	06552202	06612202	06682202
Dimension:	2 x 2 x 22 AWG		
Conductor:	bare copper wire	bare copper strands, fine wires acc. to VDE 0812	tinned copper strands, extra fine wires
Insulation:	PE, L/MD acc. to DIN VDE 0819 part 103		PE
Color code:	blue, yellow, white, orange		
Stranding:	in layers		
Wrapping:	PETP foil		
Inner jacket:	—	thermoplastic material	
Wrapping:	—	alu foil	
Screen:	tinned copper braiding		
Wrapping:	—	non-woven tape	
Outer jacket:	PVC	SABIX®	PUR
Jacket color:	green (similar RAL 6018)		

Technical data:	**PN 655 Profinet type A** *fixed laying*	**PN 661 Profinet type B** *flexible*	**S PN 668 Profinet type C** *continuous flex*
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:	**UL:** up to + 80°C - 30°C / + 70°C - 5°C / + 70°C	**UL:** up to + 75°C - 40°C / + 70°C - 30°C / + 70°C	 - 40°C / + 70°C - 30°C / + 70°C
Min. bending radius fixed laying: flexible application: continuous flex:	5 x O.D.	5 x O.D. 12 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.
Characteristic impedance:	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)		
Zero halogen:	acc. to DIN VDE 0472 part 815 + IEC 60754-1	—	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Oil resistance:	acc. to internal standard see page N/27	—	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		