INDUSTRIAL ETHERNET CABLES CAT 5

PN 654 Profinet type A, for fixed installation
PN 655 Profinet type A, for fixed installation with UL recognition
PN 660 Profinet type B, for flexible applications
PN 661 Profinet type B, for flexible applications with UL recognition

Marking for PN 660:
SAB BRÖCKSKES · D-VIERSEN · PN 660 Profinet CAT 5 Typ B 2x2x22AWG CE

Industrial Ethernet is a young and 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 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
▶ 06542202	PN 654	22/4c	0.209	5.3	29	58.0
▶ 06602202	PN 660	22 (≈ 7/30)/4c	0.260	6.6	45	58.0
▶ 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

Other dimensions and colors are possible on request.

Construction:	PN 654 Profinet type A *fixed laying*	PN 660 Profinet type B *flexible*	PN 655 Profinet type A *fixed laying*	PN 661 Profinet type B *flexible*
Dimension:	2 x 2 x 22 AWG			
Conductor:	bare copper wire	bare copper strands, fine wires acc. to VDE 0812	bare copper wire	bare copper strands, fine wires acc. to VDE 0812
Insulation:	PE, L/MD acc. to DIN VDE 0819 part 103			
Color code:	blue, yellow, white, orange			
Stranding:	in layers			
Wrapping:	PETP foil			
Inner jacket:	---	thermoplastic material	---	thermoplastic material
Wrapping:	---	alu foil	---	alu foil
Screen:	tinned copper braiding			
Wrapping:	---	non-woven tape	---	non-woven tape
Outer jacket:	PVC	SABIX® 230	PVC	SABIX® 235
Jacket color:	green (similar RAL 6018)			

Technical data:	PN 654 Profinet type A *fixed laying*	PN 660 Profinet type B *flexible*	PN 655 Profinet type A *fixed laying*	PN 661 Profinet type B *flexible*
Item number:	0654-2202	0660-2202	0655-2202	0661-2202
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:	- 30°C / + 70°C - 5°C / + 70°C	- 30°C / + 70°C - 20°C / + 70°C	**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
Min. bending radius fixed laying: flexible application:	5 x O.D.	5 x O.D. 12 x O.D.	5 x O.D.	5 x O.D. 12 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	---	acc. to internal standard see page N/27	---
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/28			