

Industrial Ethernet Cables

- PN 654 UL** PVC Profinet type A, for fixed installation with UL recognition
PN 661 Halogen-free Profinet type B, for flexible applications with UL recognition
S PN 668 PUR Profinet type C, continuous flex, suitable for cable tracks



Marking for PN 661 6612202:

SAB BRÖCKSKES · D-VIERSEN · S PN 661 Profinet CAT 5 Type B 2x2x22AWG AWM Style 21080 80° 300V

"Fast Connect" construction

Construction:	PN 654 UL Profinet type A fixed installation	PN 661 Profinet type B flexible	S PN 668 Profinet type C continuous flex
Item numbers:	6549002	6612202	6682202
Dimensions:	2 x 2 x 22 AWG	2 x 2 x 22 AWG	2 x 2 x 22 AWG
Conductor:	bare copper wire	bare copper strands, fine wires with reference to VDE 0812	tinned copper strands, extra fine wires
Insulation:	SABIX®	PE, L/MD acc. to EN 50290-2-23	PE
Color code:	blue, yellow, white, orange	blue, yellow, white, orange	blue, yellow, white, orange
Stranding:	star quad	star quad	in layers
Wrapping:	PETP foil	PETP foil	PETP foil
Inner jacket:	PVC	thermoplastic material	thermoplastic material
Wrapping:	alu foil	alu foil	alu foil
Shielding:	tinned copper braiding	tinned copper braiding	tinned copper braiding
Wrapping:	---	non-woven tape	non-woven tape
Jacket material:	PVC	SABIX®	PUR
Jacket color:	green (similar RAL 6018)	green (similar RAL 6018)	green (similar RAL 6018)

Technical data:	PN 654 UL Profinet type A fixed installation	PN 661 Profinet type B flexible	S PN 668 Profinet type C continuous flex
Peak operating voltage:	max. 350 V	max. 350 V	max. 350 V
Voltage UL:	300 V	300 V	---
Testing voltage:			
conductor/conductor:	2000 V	2000 V	1500 V
conductor/shielding:	2000 V	2000 V	1200 V
Min. bending radius:			
fixed installation:	5 x O.D.	5 x O.D.	5 x O.D.
free movement:	---	12 x O.D.	12 x O.D.
continuous flex:	---	---	15 x O.D.
Temperature range DIN VDE:			
static:	UL: up to +80°C	UL: up to +75°C	-40/+70°C
flexible:	-30/+70°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
Oil resistance:	acc. to internal standard see page O/29	---	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Characteristic impedance:	100Ω ± 5Ω, 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:	2464	21080	---
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	dimensions AWG	max. cond.-ø mm	±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft	ohmic resistance at 20°C to VDE 0812 max. Ω/km
▶ 6549002	PN 654 UL	22/4c	1.55	0.256	6.5	44	54.1
▶ 6612202	PN 661	22 (≈ 7/30)/4c	1.55	0.260	6.6	47	55.4
▶ 6682202	S PN 668	22 (≈ 19/34)/4c	1.55	0.252	6.4	39	58.0

Other dimensions and colors are available on request

Also possible as a
cable assembly with
M12 or RJ 45 plug



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