

# 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 CE

“Fast Connect” construction

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

<b>Technical data:</b>	<b>PN 654 UL</b> Profinet type A <i>fixed installation</i>	<b>PN 661</b> Profinet type B <i>flexible</i>	<b>S PN 668</b> Profinet type C <i>continuous flex</i>
<b>Peak operating voltage:</b>	max. 350 V	max. 350 V	max. 350 V
<b>Voltage UL:</b>	300 V	300 V	---
<b>Testing voltage:</b>			
conductor/conductor:	2000 V	2000 V	1500 V
conductor/shielding:	2000 V	2000 V	1200 V
<b>Min. bending radius:</b>			
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.
<b>Temperature range DIN VDE:</b>			
static:	UL: up to +80°C -30/+70°C	UL: up to +75°C -40/+70°C	-40/+70°C
flexible:	-5/+70°C	-30/+70 °C	-30/+70°C
<b>Halogen-free:</b>	---	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Oil resistance:</b>	acc. to internal standard see page O/29	---	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Characteristic impedance:</b>	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)		
<b>UL Style:</b>	2464	21080	---
<b>Application:</b>	suitable for EtherCAT and EtherNET/IP applications		
<b>Absence of harmful substances:</b>	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



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