

# INDUSTRIAL ETHERNET CABLES PROFINET

**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 BRÜCKSKES · D-VIERSEN · PN 660 Profinet CAT 5 Typ B 2x2x22AWG CE



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

<b>Technical data:</b>	<b>PN 654</b> Profinet type A <i>fixed laying</i>	<b>PN 660</b> Profinet type B <i>flexible</i>	<b>PN 655</b> Profinet type A <i>fixed laying</i>	<b>PN 661</b> Profinet type B <i>flexible</i>
<b>Item number:</b>	0654-2202	0660-2202	0655-2202	0661-2202
<b>Peak operating voltage VDE:</b>	max. 350 V			
<b>Voltage UL:</b>	---	---	300 V	
<b>Testing voltage:</b>	core/core 1500 V - core/screen 1200 V			
<b>Temperature range VDE</b> fixed laying: flexible application:	- 30°C / + 70°C - 5°C / + 70°C	- 30°C / + 70°C - 20°C / + 70°C	<b>UL:</b> up to + 80°C - 30°C / + 70 °C - 5°C / + 70 °C	<b>UL:</b> up to + 75°C - 40°C / + 70 °C - 30°C / + 70 °C
<b>Min. bending radius</b> fixed laying: flexible application:	5 x d	5 x d 12 x d	5 x d	5 x d 12 x d
<b>Characteristic impedance:</b>	100Ω ± 5Ω, accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)			
<b>Halogen-free:</b>	---	acc. to DIN VDE 0472 part 815 + IEC 60754-1	---	acc. to DIN VDE 0472 part 815 + IEC 60754-1
<b>Oil resistance:</b>	acc. to internal standard see page N/15	---	acc. to internal standard see page N/15	---
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page N/17			

item no.	type	no. of cores	cross section AWG	max. core-ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈kg/km	ohmic resistance at 20°C acc. to VDE 0812 max.Ω/km
06542202	PN 654	4	22	1,55	5,3	28,0	43	58,0
06602202	PN 660	4	22	1,55	6,6	36,2	67	58,0
06552202	PN 655	4	22	1,55	5,9	30,4	51	58,0
06612202	PN 661	4	22	1,55	6,6	36,2	70	58,0

Other dimensions and colours are possible on request.