

# 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 BRÖCKSKES · D-VIERSEN · PN 660 Profinet CAT 5 Typ B · 2x2x22AWG CE



Construction:	PN 654 Profinet type A <i>fixed laying</i>	PN 660 Profinet type B <i>flexible</i>	PN 655 Profinet type A <i>fixed laying</i>	PN 661 Profinet type B <i>flexible</i>
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			
Colour code:	blue, yellow, white, orange			
Stranding:	in layers			
Wrapping:	PETP foil			
Inner sheat:	---	thermoplastic material	---	thermoplastic material
Wrapping:	---	alu foil	---	alu foil
Screen:	tinned copper braiding			
Wrapping:	---	non-woven tape	---	non-woven tape
Sheath material:	PVC	SABIX®	PVC	SABIX®
Sheath colour:	green (similar RAL 6018)			

Technical data:	PN 654 Profinet type A <i>fixed laying</i>	PN 660 Profinet type B <i>flexible</i>	PN 655 Profinet type A <i>fixed laying</i>	PN 661 Profinet type B <i>flexible</i>
Item number:	0654-2202	0660-2202	0655-2202	0661-2202
Peak operating voltage VDE:	max. 350 V			
Voltage UL:	---	---	300 V	
Testing voltage:	core/core 1500 V - core/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 d	5 x d 12 x d	5 x d	5 x d 12 x 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)			
Halogen-free:	---	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/15	---	acc. to internal standard see page N/15	---
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page N/17			

item no.	type	no. of cores	cross section AWG	core-ø max. 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.