

# INDUSTRIAL ETHERNET CABLES CAT 5

**PN 662** Profinet type B, for flexible applications  
**PN 663** Profinet type B, for flexible applications with UL recognition

**S PN 668** Profinet type C, continuously flexible  
**S PN 669** Profinet type C, continuously flexible with UL recognition



D-VIERSEN · S PN 668 Profinet CAT 5 Typ C 2x2

Marking for S PN 668:

SAB BRÖCKSKES · D-VIERSEN · S PN 668 Profinet CAT 5 Typ C 2x2x22AWG CE

Industrial Ethernet is a young and quickly developing network technology. Ethernet with the worldwide accepted TCP/IP (Transmission Control Protocol/Internet Protocol) 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	dimensons AWG	nominal outer- $\phi$ inch	mm	cable weight $\approx$ lbs/mft	ohmic resistance at 20°C acc. to VDE 0812 max. $\Omega$ /km
▶ 06622202	PN 662	22 ( $\approx$ 7/30)/4c	0.240	6.1	38	58.0
▶ 06682202	S PN 668	22 ( $\approx$ 19/34)/4c	0.252	6.4	39	58.0
▶ 06632202	PN 663	22 ( $\approx$ 7/30)/4c	0.256	6.5	44	58.0
▶ 06692202	S PN 669	22 ( $\approx$ 19/34)/4c	0.272	6.9	46	58.0

Other dimensions and colors are possible on request.

<b>Construction:</b>	<b>PN 662</b> Profinet type B <i>flexible</i>	<b>S PN 668</b> Profinet type C <i>continuously flexible</i>	<b>PN 663</b> Profinet type B <i>flexible</i>	<b>S PN 669</b> Profinet type C <i>continuously flexible</i>
<b>Dimension:</b>	2 x 2 x 22 AWG			
<b>Conductor:</b>	tinned copper strands, fine wires acc. to VDE 0812	tinned copper strands, extra fine wires	tinned copper strands, fine wires acc. to VDE 0812	tinned copper strands, extra fine wires
<b>Insulation:</b>	PE, L/MD acc. to DIN VDE 0819 part 103	PE	PE, L/MD acc. to DIN VDE 0819 part 103	PE
<b>Color code:</b>	blue, yellow, white, orange			
<b>Stranding:</b>	in layers			
<b>Wrapping:</b>	PETP foil			
<b>Inner jacket:</b>	thermoplastic material			
<b>Wrapping:</b>	alu foil			
<b>Screen:</b>	tinned copper braiding			
<b>Wrapping:</b>	---	non-woven tape	---	non-woven tape
<b>Outer jacket:</b>	PVC	PUR	PVC	PUR
<b>Jacket color:</b>	green (similar RAL 6018)			

<b>Technical data:</b>	<b>PN 662</b> Profinet type B <i>flexible</i>	<b>S PN 668</b> Profinet type C <i>continuously flexible</i>	<b>PN 663</b> Profinet type B <i>flexible</i>	<b>S PN 669</b> Profinet type C <i>continuously flexible</i>
<b>Item number:</b>	0662-2202	0668-2202	0663-2202	0669-2202
<b>Peak operating voltage VDE:</b>	max. 350 V			
<b>Voltage UL:</b>	---		300 V	
<b>Testing voltage:</b>	conductor/conductor 1500 V - conductor/screen 1200 V			
<b>Temperature range VDE</b> fixed laying: flexible application:	- 30°C / + 70°C - 5°C / + 70°C	- 40°C / + 70°C - 30°C / + 70°C	<b>UL:</b> up to + 80°C - 30°C / + 70 °C - 5°C / + 70 °C	<b>UL:</b> up to + 80°C - 30°C / + 70 °C - 20°C / + 70 °C
<b>Min. bending radius</b> fixed laying: flexible application: continuously flexible:	5 x O.D. 10 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.
<b>Characteristic impedance:</b>	100 $\Omega$ $\pm$ 5 $\Omega$ , accomplishes the electrical and transmission requirements with high frequency acc. to EN 50288-2-2 (CAT 5 acc. to EN 50173-1)			
<b>Zero halogen:</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/27	TMPU acc. to DIN VDE 0282 part 10 + HD 22.10	acc. to internal standard see page N/27	acc. to internal standard see page N/27
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page N/28			