

Industrial Ethernet Cables CAT 5



S PN 668 Hybrid Hybrid cable with UL recognition

RT PN 668 Profinet cable suitable for robots

198 80°C 300V CSA AWM I/II A/B 80°C 300V FT2 CE



Marking for RT PN 668 06689001:

SAB BRÜCKSKES · D-VIERSEN · RT PN 668 Profinet 2x2x22AWG · Robot Cable · CE



Construction:	S PN 668 Hybrid <i>Hybrid cable type C</i> <i>continuously flexible</i>	RT PN 668 <i>Profinet cable</i> <i>suitable for robots</i>
Dimensions:	2 x 2 x 22 AWG + 4 x 1,5 mm ²	2 x 2 x 22 AWG
Conductor:	22 AWG: tinned copper strands, extra fine wires. 1,5 mm ² : bare copper strands acc. to IEC 60228, VDE 0295, class 6	tinned copper strands, extra fine wires
Insulation:	22 AWG: SABIX® 1,5 mm ² : TPE	PE
Colour code:	22 AWG: blue, yellow, white, orange. 1,5 mm ² : black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334	blue, yellow, white, orange
Stranding:	22 AWG: in layers, together in layers	in layers
Wrapping:	22 AWG: PETP foil	netting tape, alu foil
Inner sheath:	22 AWG: SABIX®	---
Wrapping:	22 AWG: alu foil	---
Screen:	22 AWG: tinned copper braiding	---
Wrapping:	22 AWG: non-woven tape	---
Screen:	---	tinned copper braiding
Wrapping:	non-woven tape	
Sheath material:	PUR	
Sheath colour:	green (similar RAL 6018)	

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Technical data:	S PN 668 Hybrid <i>Hybrid cable type C</i> <i>continuously flexible</i>	RT PN 668 <i>Profinet cable</i> <i>suitable for robots</i>
Item numbers:	0668-9010	0668-9001
Peak operating voltage:	max. 350 V	
Voltage UL:	300 V	---
Testing voltage		
core/core:	2000 V	1500 V
core/screen:	2000 V	1200 V
Min. bending radius		
fixed laying:	5 x d	5 x d
flexible application:	10 x d	10 x d
continuously flexible:	12 x d	
Torsion angle:	---	± 180°/m
Temperature range VDE	UL: up to +80 °C	
fixed laying:	-40/+90 °C	-40/+70 °C
flexible application:	-30/+90 °C	-30/+70 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Oil resistance:	TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2	
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-2-2 + VDE 0819-2-2 (CAT 5 acc. to EN 50173-1)	
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical Data“	

item no.	type	no. of conductors	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
06689010	S PN 668 Hybrid	8	22 + 16	1,50 / 2,15	10,0	94,1	158	58,0 / 13,3
06689001	RT PN 668	4	22	1,50	7,0	36,3	62	58,0

Other dimensions and colours are possible on request.

