



BRAUNKABEL

Passt. Einfach. Perfekt.

BK DATA

ETHERNET CAT. 5e 1 X 4 X 22/19 AWG

PUR FC



FLAME-RESISTANT

CMX, AWM 21161

APPLICATIONS / PRODUCT FEATURES

- Cabling in accordance with EN 50173
- PROFINET® and Ethernet/IP
- Industrial Ethernet Category 5e with a transmission rate of up to 100 Mbit/s
- Meets the real-time requirements for Industry 4.0
- Suitable for highly flexible applications
- Suitable for drag chains, flame-resistant and halogen-free
- Supports patch cable applications up to max. 80 metres
- PROFINET® core coding (with ring coding on request)

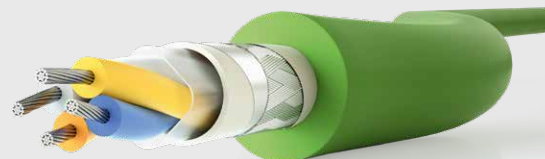
BENEFITS OF BRAUNKABEL

- Direct from the manufacturer
- Excellent precision, dimensional accuracy and centricity, plus small tolerances
- Short delivery times / standard design available from stock
- Space-saving compact design with star quad configuration
- High UL approvals
- Also optimised for short lengths



BKDATA

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CONSTRUCTION DETAILS	
Conductor	22/19 AWG tinned
Core insulation	Polypropylen
Stranding	Star-quad with filler as central element
Sequence of colour	According to PROFINET® Code: white, yellow, blue, orange (with ring coding on request)
Inner sheath	FRNC
Shield	Foil, copper braiding
Tape	Eparating tapes
Outer sheath	PUR
Colour	Green, similar RAL 6018
Cable diameter	6.5 ± 0.2 mm

CHARACTERISTICS	
Flame retardant	According UL 2556 VW 1, AWM CSA FT 2
UL	CMX-Listing, AWM-Style 21161
Other guidelines	RoHS- and REACH-conform

MECHANICAL PROPERTIES	
Temperature UL range	fixed: -20° to +75° C moved: -20° to +75° C
Temperature out of UL	fixed: -50° to +90° C moved: -50° to +90° C
Min. bending radius	fixed: 4 x diameter moved: 8 x diameter
Bending cycles *	≥ 4 Mio.
Travelling distance *	5 m
Acceleration *	3 m/s ²
Speed *	3 m/s

* Testing at +20° Celsius

ELECTRICAL PROPERTIES	
Characteristic impedance	According to IEC 61156-6 (Nominal impedance 100 Ohm)
Conductor resistance	59 Ohm
Voltage	UL-Listing 300 Volt

CROSS SECTION



TRANSMISSION PROPERTIES								
Frequency (MHz)	1*	4	10	16	20	31.25	62.5	100
Attenuation (dB/100m)	1.83	3.62	5.73	7.24	8.07	10.15	14.74	19.21
NEXT (dB)	86	77	76	70	64	64	59	64

* Just for information

FORMAT / PACKAGING	
100 m ring	Order no. 503153
500 m on bobbin	Order no. 503154
1.000 m on bobbin	Order no. 503155