



BRAUNKABEL

Passt. Einfach. Perfekt.

BK DATA

ETHERNET CAT. 5e 1 X 4 X 22/7 AWG

PVC FC



FLAME-RESISTANT

PLTC, CMG

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 flexible use and fixed installation
- Supports patch cable applications up to max. 80 metres
- PROFINET® core coding (with ring coding on request)
- Oil and UV-resistant PVC

BENEFITS OF BRAUNKABEL

- Direct from the manufacturer
- Short delivery times / standard design available from stock
- Space-saving compact design with star quad configuration
- High UL approvals
- Also optimised for short lengths



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CONSTRUCTION DETAILS

Conductor	22/7 AWG tinned
Core insulation	Polypropylen
Stranding	Star-quad
Sequence of colour	According to PROFINET® Code: white, yellow, blue, orange
Inner sheath	PVC
Shield	Foil, copper braiding
Tape	Eparating tapes
Outer sheath	PVC
Colour	Green, similar RAL 6018
Cable diameter	6.5 ± 0.15 mm

CHARACTERISTICS

Flame retardant	According to UL 1685 FT 4
UV-resistant	According to UL 444 Sunlight Resistant
UL	CMG- and PLTC-Listing, AWM Style 21694
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: -40° to +90° C moved: -40° to +90° C
Min. bending radius	fixed: 4 x diameter moved: 8 x diameter

ELECTRICAL PROPERTIES

Characteristic impedance	According to IEC 61156-6 (Nominal impedance 100 Ohm)
Conductor resistance	59 Ohm
Voltage	UL-Listing 300 Volt, AWM 600 Volt

TRANSMISSION PROPERTIES

Frequency (MHz)	1*	4	10	16	20	31,25	62,5	100
Attenuation (dB/100m)	1,66	3,36	5,41	6,93	7,75	9,85	14,52	19,06
NEXT (dB)	73	74	75	64	63	63	64	60

* Just for information

CROSS SECTION



FORMAT / PACKAGING

100 m ring	Order no. 502879
500 m on bobbin	Order no. 502880
1.000 m on bobbin	Order no. 502881