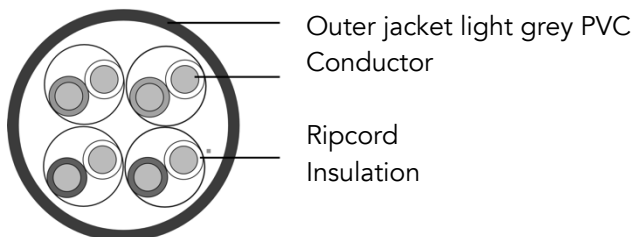


DATASHEET

011000 KFLan Cat 5e Cable, U/UTP, PVC, 4 Pair, AWG 24,
Indoor CPR Eca



Description

Cat. 5e (100MHz), 4-Pair, U/UTP Unshielded, Premise Horizontal Cable, 24 AWG solid bare copper conductors, Polyethylene insulation, PVC jacket, RJ-45 compatible.

Structure

Conductor	solid bare copper 0.485 mm (4x2x24AWG) copper wire purity 99,99 %
Insulation	polyethylen ca. 0.9 mm
Pair marking	pair 1: blue / white-blue pair 2: orange / white-orange pair 3: green / white-green pair 4: brown /white-brown
Shield	unshielded, U/UTP
Outer jacket	PVC light grey, RAL7035 outer Ø: 5.2 mm (± 0.5 mm)

Electrical properties at 20°C

Linear resistance	max. 9.5 Ω/100 m
Mutual capacity	max. 5.6 nF/100 m
Unbalance capacity	max. 160 pF/100 m
Characteristic impedance	100 ± 15 Ω (1 to 100 MHz)
Velocity of propagation	approx 66 % of C (at 100 MHz)

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Electrical transmission properties at 20°C

Frequency [MHz]	1	4	8	10	16	20	25	31.25	62.5	100
ReturnLoss [dB]	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1
Attenuation [dB/100 m]	2.1	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17	22
NEXT [dB]	65.3	56.3	51.8	50.3	47.2	45.8	44.3	42.9	38.4	35.3
PSNEXT [dB]	62.3	53.3	48.8	47.3	44.2	42.8	41.3	39.9	35.4	32.3
EL FEXT	63.8	52	45.9	44	39.9	38	36	34.1	28.1	24
PSELFEXT [dB/100 m]	60.8	49	42.9	41	36.9	35	33	31.1	25.1	21

Mechanical and thermal properties

Bending radius	10x Ø
Working temperature	-40 °C up to +70 °C

Standards and certification

ISO/IEC Compliance	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
UL Compliance (ETL)	CSA C22.2#214:2017 Ed.8 UL 444:2017 Ed.5
CPR Euroclass	Eca
Data Category	Category 5e
ANSI Compliance	ANSI/TIA 568.2-D (2018)
IEEE Specification	PoE: IEEE 802.3bt Type 1, Type 2, Type 3