

LK ETHERNET CABLE

INDUSTRIAL ETHERNET PROFINET TYPE A

2x2xAWG22 PVC



Specification

■ Inner Conductor	Bare Copper	
■ Insulation	PE	
■ Insulation Color	White, Orange, Blue, Yellow	
■ Foil Shield	AL-PET	>110%
■ Braiding Shield	Tinned Copper	112 x 0.12±0.20mm
■ Braiding Coverage		80%
■ Jacket	PVC	
■ Jacket Color	Green	RAL 6018

Electrical Performance (20°C)

- Nominal Mutual Capacitance : 56nF/km
- Conductor DC Resistance: ≤62Ω/km
- Delay skew: ≤20ns/100m
- Mean characteristic impedance @ 100MHz : 100 ±5
- Transfer impedance at 10 MHz): ≤10mΩ/m
- Coupling attenuation from 30MHz to 1000MHz ≥80dB
- Maximum installation tension: 135N

APPLICATIONS

Profinet CAT5e cable for indoor industrial ethernet applications compliant with Fast connect equipment.



APPLICATIONS

-For PROFINET system, Industrial Ethernet & ICT network application



THERMAL PERFORMANCE

-Maximum services temperature: 80°C
-Minimum services temperature: -30°C



BASED ON

-IEC 61156
-IEC/ISO 11801
-TIA-568-C2:2009



MECHANICAL PERFORMANCE

-Minimum bending radius: 7.5 x Cable diameter



ENVIRONMENTAL PERFORMANCE

-Water resistance: AD5 Jets
-Chemical & Oils resistance: Good



APPROVALS

-RoHS
-REACH



ELECTRICAL PERFORMANCE

-Rated Voltage : 125V
-Test Voltage : AC 2000V



FIRE PERFORMANCE

-Flame non-propagation base on IEC60332-1
-Fire non-propagation base on IEC 60332-3-24



INSTALLATION CONDITIONS

-In conduit
-Open Air

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Type	Dimension	Cu content kg/km	Outer diameter approx.mm	Weight approx. kg/km
PROFINET TYPE A	2 x 2 x AWG 22/7	33.0	6.8	69

Electrical Characteristics (20°C)

Frequency (MHz)	1MHz	4MHz	10MHz	16MHz	20MHz	31.25MHz	62.50MHz	100MHz
Attenuation Max (dB/100m)	2.1	4.0	6.3	8.0	9.0	11.40	16.5	21.3
NEXT min (dB)	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3
PSNEXT min (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
ACRF min (dB)	64.0	52.0	44.0	39.9	38.0	34.1	28.1	24.0
PSACRF min (dB)	61.0	49.0	41.0	36.9	35.0	31.1	25.1	21.0
Return Loss min (dB)	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1

