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Cable Specification

C18-1005x/xx – Cat5e UTP Solid + 2 Core Power Figure 8 Cable
Data networking and power cable perfectly suited for PTZ and CCTV camera operation.



Image is for reference only. ©KSM Ltd

Mechanical Characteristics

Operating Temperature (°C): -40 to +80

Electrical Characteristics at 20°C

Cat5e

Impedance 1MHz to 100MHz (Ω):	100±15
Max. Conductor DC Resistance (Ω/km):	107

Power

Max. Conductor DC Resistance (Ω/km):	43
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Construction

Cat5e

Conductor

Material:	Bare Copper
Construction:	1/0.50mm (24 AWG)

Insulation

Material:	High Density Polyethylene
Diameter:	0.90mm nominal
Colour Code:	
Pair 1	Blue, White/Blue
Pair 2	Orange, White/Orange
Pair 3	Green, White/Green
Pair 4	Brown, White/Brown

Power

Conductor

Material:	Bare Copper
Construction:	16/0.2mm (0.50mm ²)

Insulation

Material:	Polyvinyl Chloride
Diameter:	1.80mm nominal
Colour Code:	Red, Black

Cat5e + Power

Sheath

Material:	Low Smoke and Fume or Polyethylene
Diameter:	
Cat5e	4.80mm nominal
Power	4.50mm nominal
Combined	9.30mm nominal

Frequency (MHz)	Nominal Attenuation (dB/100m)	Minimum NEXT (dB)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)	Minimum Return Loss (dB)
1	2.0	65.3	62.3	64.0	61.0	20.0
4	4.1	56.3	53.3	52.0	49.0	23.0
10	6.5	50.3	47.3	44.0	41.0	25.0
16	8.2	47.2	44.4	39.9	36.9	25.0
20	9.3	45.8	42.8	38.0	35.0	25.0
25	10.4	44.3	41.3	35.8	33.0	24.3
31.25	11.7	42.9	39.9	34.1	31.1	23.6
62.5	17.0	38.4	35.4	28.1	25.1	21.5
100	22.0	35.3	32.3	24.0	21.0	20.1

Compliance

ANSI/TIA-568.2-D
ISO/IEC 11801 2nd Edition
RoHS II Directive (2011/65/EU & 2015/863)
REACH (1907/2006)

Part Options

C18-1005L/BK Cat5e UTP + Power Black LSF
C18-1005E/BK Cat5e UTP + Power Black PE
Connectors, cable preparation tools and crimp tools are also available.

Audio Video Cables | Belden Alternative Cables | Coaxial Cables | Data Networking Cables | Defence Standard Cables | Fire Cables
Security Cables | Mains Flexible & Control Cables | Photovoltaic Cables | Silicone Cables | Telephone Cables | Thermal Control Cables

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