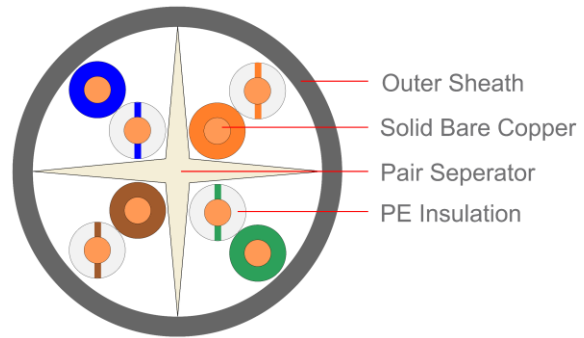


MEGANet Cs Cable Solid U/UTP CAT6

The MEGANet Cs CAT6 U/UTP Solid Ethernet Cable is designed to deliver outstanding performance, making it an ideal option for advanced networks. Constructed with four pairs and a pair separator, effectively reducing NEXT (Near-End Crosstalk) interference between the pairs.

Features

- Tested to 250 MHz frequency
- Pair separator to reduce NEXT
- Standards
 - ISO 11801 2nd Edition
 - EIA/TIA 568.2-D
 - EN 50173 2nd Edition
 - IEC 60754-2
 - IEC 61034-2
- EC Verified



Application

- Voice - Analog, ISDN & VOIP
- Data - Ethernet up to 1 Gbits/s
- PoE - Up to Class 6 | 60 W | Type 3 (802.3bt)

Cable Structure and Parameter

Description	Value
Conductor	Solid Copper 23 AWG 0.57mm
Conductor Insulation	Polyethylene
Twisting	2 Cores per pair Color coded
Outer Sheath	Polyvinyl Chloride
Fire Behavior	IEC 60332-1
Cable Diameter	6.1mm ±10%
Weight	22 kg/500m reel
Minimum Bending Radius	8 x OD
Maximum Permanent Link Distance	90m
Operating Temperature	-20°C to + 70°C

Electrical Characteristic @ 20°C

Description	Value
Electrical Resistance of Conductors	80.0 Ω/km Maximum
Mutual Capacitance	42 pF/m Maximum
Delay Skew	40 ns/100m Maximum
DC Resistance Unbalance core to core	3% Maximum
DC Resistance Unbalance pair to pair	7% Maximum
Characteristic Impedance	100 Ω Maximum ± 15% (1.0 MHz – 250 MHz)
Nominal Velocity Propagation	68%



Transmission Performance @ 20°C

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	ACR-N (dB)	PS ACR-N (dB)	ACR-F (dB)	PS ACR-F (dB)	Return Loss (dB)
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.7	52.7	23.0
8	5.4	60.8	58.8	55.4	53.4	49.7	46.7	25.0
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.7	38.0	25.0
25	9.6	53.3	51.3	43.8	41.8	39.8	36.8	25.0
31.25	10.7	51.9	49.9	41.1	39.1	37.9	34.9	23.6
62.5	15.5	47.4	45.4	31.9	29.9	31.8	28.8	21.5
100	19.9	44.3	42.3	24.4	22.4	27.8	24.8	20.1
125	22.5	42.8	40.8	20.4	18.4	25.8	22.8	19.4
200	29.2	39.8	37.8	10.6	8.6	21.7	18.7	18.0
250	33	38.3	36.3	5.3	3.3	19.8	16.8	17.3

Ordering Information

Product Code	Description
A-BH13-C00100	MEGANet Cs Cable U/UTP CAT6 Solid Grey *
A-BH13-C00125	MEGANet Cs Cable U/UTP CAT6 Solid Blue *
A-BH13-C00150	MEGANet Cs Cable U/UTP CAT6 Solid Green *
A-BH13-C00175	MEGANet Cs Cable U/UTP CAT6 Solid Orange *
A-BH13-C00225	MEGANet Cs Cable U/UTP CAT6 Solid Yellow *
A-BH13-C00250	MEGANet Cs Cable U/UTP CAT6 Solid Black *

* Cable is designed for PoE applications of maximum 60W

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