

MK650 CAT6A U/UTP

DESCRIPTION

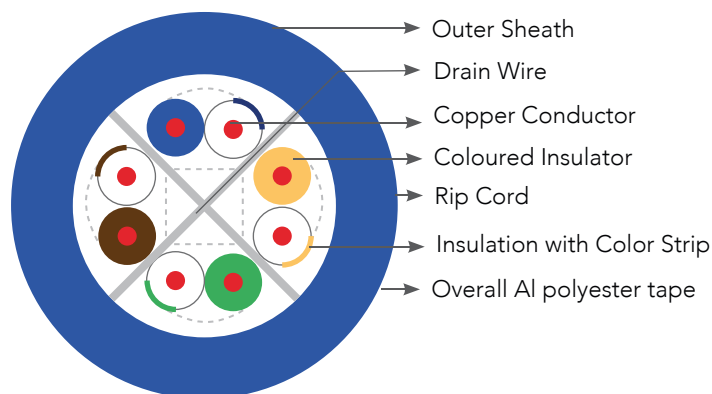
10Base-T, 100Base-T, 1000Base-T, and Fieldbus systems. Applicable for Power over Ethernet (PoE) / PoE+

CABLE CONSTRUCTION

- ✓ 23 AWG Bare Copper
- ✓ PE Insulation
- ✓ Pair Separator
- ✓ $\varnothing 6.20 \pm 0.20\text{mm}$ LSZH or PE Jacket

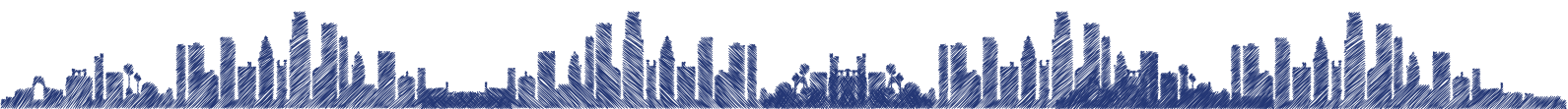
STANDARDS

EIA/TIA-568
ISO/IEC 11801 Class EA
IEC 61156-5, EN 50173-1
EN 50288-11-1



COLOUR CODE

PAIR	SPECIFICATIONS
1	Blue - White or white with color stripe
2	Orange - White or white with color stripe
3	Green - White or white with color stripe
4	Brown - White or white with color stripe

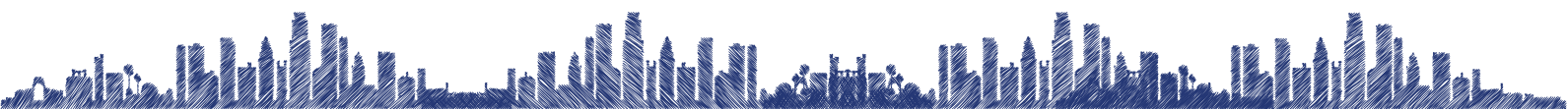


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ADDITIONAL SPECIFICATIONS

TECHNICAL CHARACTERISTICS	DESCRIPTION
Copper Weight	19.1 kg/km
Min. Bending radius during draw in	50 mm
Min. Bending radius permanently installed	25 mm
Max. Tensile Strength	90 N
Min. Crush Resistance	1000 N/10 cm
Min. Impact	10 Impacts
Installation Temperature	0°C ... + 50°C
Operating Temperature	-20°C ... + 70°C
Packing	305 / 500 m

ELECTRICAL CHARACTERISTICS	DESCRIPTION
Max. Conductor Resistance	< 9.5 Ω / km
Max. Resistance Unbalance	< 2%
Min. Insulation Resistance	5000 M Ω x m
Mutual Capacitance	< 60 pF / m
Max. Capacitance Unbalance	1600 pF / km
Impedance at 100 MHz	100 $\pm$ 5 Ω
Velocity of Propagation	66 %
Delay Skew	< 45 ns / 100 m
Test Voltage	1000 V
Operating Voltage	125 V



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ADDITIONAL SPECIFICATIONS

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS - NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)
1	2.0	95	92	90	87	100	97	25
4	3.6	95	92	90	87	100	97	25
10	5.4	95	92	85	82	90	87	28
100	18.3	87	84	75	72	75	72	25
200	25.0	87	84	75	72	70	67	25
250	29.1	85	82	52	49	65	62	23
300	37.4	75	72	41	48	55	52	23
400	41.5	75	72	30	27	55	52	21

ORDER INFORMATION

PART NUMBER	Euro Class (CPR)	Flame Retardancy	Corrosive Gases Test	Smoke Density	Cable Weight
MK650 Cat 6A U/UTP LSZH B _{ca}	B _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	46
MK650 Cat 6A S/UTP LSZH C _{ca}	C _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	46
MK650 Cat 6A S/UTP LSZH D _{ca}	D _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	46
MK650 Cat 6A S/UTP LSZH E _{ca}	E _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	46
MK650 Cat 6A S/UTP PE F _{ca}	F _{ca}	N/A	N/A	N/A	39

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