



ZHUHAI SURELINK COMMUNICATION CABLE CO.,LTD.

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GCE018 OUTDOOR UTP CAT5E WITH POWER 4PAIRS CCAM INNER JACKET PVC+OUTER JACKET PE JELLY FILLED

Cross Section



Electrical Characteristics(20°C)

Standard: TIA/EIA-568-B.2 & IEC/ISO 11801

Product Standard Certification:

Test Item	Units	Spec
1.Conductor D.C. Resistance	Ω/100m	≤11
2.Unbalance of Pair D.C Resistance	%	≤2.5
3.Dielectric Strength between Pairs	kv/min	≤1.0
4.Dielectric Strength Conductor to Screen	kv/min	≤2.5
5.Insulation Resistance	MΩ·km	≥5000
6.Capacitance	nF/100m	≤5.6
7.Unbalance of Capacitance	pF/100m	≤330
8.Characteristic impedance(1 to 100MHz)	Ω	100±15
9.Short or Open of the loop	—	None
10.Operating Temperature Rating	°C	-50 To +70

Cable Description

1) Conductor:

Number of Pairs	4
Total Number of Conductors	8
Conductor	CCAM 45% COPPER
Wire Gage	24AWG
Conductor Dia.	Φ 0.50
Elongation	≥15%

2) Insulate:

Insulation Material	
Nom. Thickness	0.260mm
Insulation Dia.	Φ 0.98±0.05mm
Elongation	≥300%
Color Cord	Pair 1: White-Blue & Blue Pair 2: White-Orange & Orange Pair 3: White-Green & Green Pair 4: White-Brown & Brown

3) Paired:

Length of <30mm

4) Inner jacket

Insulation	0.98mm
inner jacket	5.3mm
outer jacket	6.6mm
power	7/0.38mm CCAM 45% COPPER
Power color	red and black jelly filled inside

5) Out Sheath:

Sheath	UV Resistance 3364 PE
Color	Black
Steel Wire	Φ 1.20mm
Sheath Dia.	Φ 2.80±0.2mm
Nom.Thickness	0.80±0.05mm
Max.overall Dia.	Φ 6.6mm+5.6mm
Marking	Per Customer

6) Packing:

Packing Mark	Accord to Contract
Appearance	Orderliness
Reel	305meters/drum

Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)
1	20.00	28.00	2.03	65.30
4	23.01	28.00	4.03	56.27
8	24.52	28.00	5.73	51.75
10	25.00	28.00	6.43	50.30
16	25.00	28.00	8.19	47.24
20	25.00	25.00	9.20	45.78
25	24.32	27.03	10.33	44.33
31.25	23.64	26.06	11.62	42.88
62.5	21.54	23.05	16.79	38.36
100	20.11	21.01	21.65	35.30

Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	62.30	64.00	61.00	45.00
4	53.27	51.96	48.96	45.00
8	48.75	45.94	42.94	45.00
10	47.30	44.00	41.00	45.00
16	44.24	39.92	36.92	45.00
20	42.78	37.98	34.98	45.00
25	41.33	36.04	33.04	45.00
31.25	39.88	34.10	31.10	45.00
62.5	35.36	28.08	25.08	45.00
100	32.30	24.00	21.00	45.00