PRODUCTS SPECIFICATION

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DESCRIPTION: Gigabit Ethernet Cable (Cat5E)

CUSTOMER：

COMOSS P/N：

Date of Issue：

Version： 1.0

Designer：

Approval	Customer Signature

COMOSS ELECTRONIC CO., LTD.

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Approved :	Project No.	Rev. No.	Page
		1.0	1 of 3

Subject :

Product Specification – COMOSS Gigabit Ethernet Cable

1. GigE Cable Series Description

GigE ---- 8P8CS/1---8P8CS/1---XXX---X ----X ----X

(1) (2) (3) (4) (5) (6) (7) (8)

(1) (3) Contact Type

8P8C : 8P8C Plug

8P8CS : 8P8C Plug with Jack screw

(2)(4) Overmold Type

1 : Straight

2 : Side Right Angle

3 : Down Right Angle

(5) Cable Length

1M : 100

2M : 200

3M : 300

4M : 400

(6) connector contact plating

00 : gold flash

01 : 6u ”

02 : 15u ”

03 : 30u ”

(7) connector Shell plating

G : gold flash

N : Nickel flash

(8) cable Cat type

1 : Cat.5e With COMOSS supplier

2 : Cat.5e With OKI High Flex Soft cable

3 : Cat.6 With COMOSS supplier

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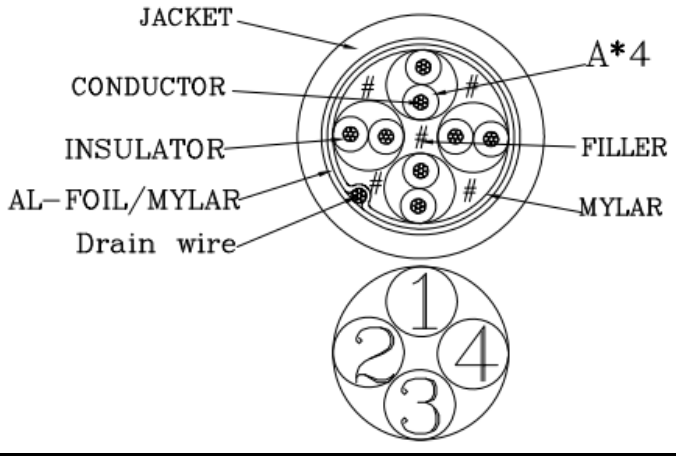
Product Specification – Gigabit Ethernet Cable (Cat5E)



COLOR CODE

1. BROWN & BROWN / WHITE
2. BLUE & BLUE / WHITE
3. ORANGE&ORANGE / WHITE
4. GREEN&GREEN / WHITE

Construction

Conductors:	Stranded Bare Copper
AWG	24
Twisted Pair	4 pairs (8C)
Insulation:	HD-PE
Dia.	1.02±0.02 mm
Avg. Thickness	0.210 mm
Shield:	Aluminum foil / Myler
Drain wire AWG:	24
Jacket:	PVC
Dia.	6.5± 0.19 mm
Min. Thickness	0.38 mm

Electric Characters

1. Voltage rating: 30V
2. Temperature rating: 60℃
3. Spark test : AC-500V / 0.15 sec MIN
4. Dieletric strength: AC-750V / 1sec MIN
5. Insulation resistance:

   PE: DC-500V 100Mohm MIN. At 20℃

Physical Characters

1. Flame test of cable : 1.1 VW-1,FT2
2. Tensile strength test (before aging) :
   - 2.1 Sheath: >1.05kg/mm2
   - 2.2 Insulation: >1.05kg/mm2
3. Tensile strength test (after aging) :
   - 3.1 Sheath: >70%
   - 3.2 Insulation: >70%
4. Elongation test (before aging) :
   - 3.1 Sheath: >100%
   - 3.2 Insulation: >100%
5. Elongation test (after aging) :
   - 3.1 Sheath: >65%
   - 3.2 Insulation: >65%
6. Complied with RoHS

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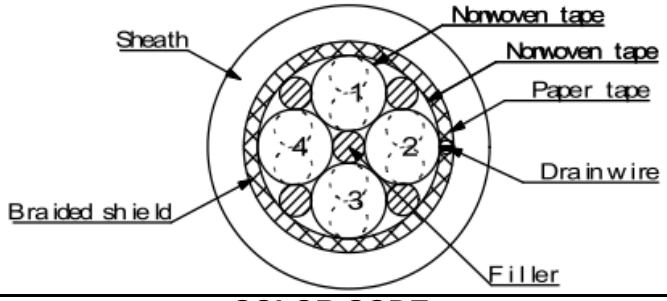
Product Specification – OKI High Flex Soft cable (Cat5E)



COLOR CODE

1 BLUE & WHITE
2. ORANGE&WHITE
3. GREEN & WHITE
4. BROWN& WHITE

Construction

Conductors:	Annealed Copper
AWG	26
Twisted Pair	4 pairs (8C)
Insulation:	Polyolefin
Dia.	Nom.0.9mm
Braided Shield:	Alloy wire
Drain wire	Stranded tinned copper
Jacket:	Flame retardant PVC
Dia.	nom. 6.8 mm
Thickness	nom. 0.6 mm

Item		Specification
Electrical performance	Conductor resistance Ω / km	≦ 149 (at 20°C)
	Withstand voltage V	AC 500 (1 minute)
	Insulation resistance MΩ km	≧ 5000 (at 20°C)
	Insertion Loss dB/ 40m (at 20°C)	≦ 1.967 SQRT(f)+0.023f+0.050/ SQRT(f) (1MHz ~ 100MHz)
	Return Loss dB	≧ 20+5log(f) (1MHz ~ 10MHz) ≧ 25 (10MHz ~ 20MHz) ≧ 25-7log(f/ 20) (20MHz ~ 100MHz)
	Near End Cross Talk dB	≧ 35.3-15log(f/ 100) (1MHz ~ 100MHz)
	Power Sum Near End Cross Talk dB	≧ 32.3-15log(f/ 100) (1MHz ~ 100MHz)
	Far End Cross Talk dB/ 40m	≧ 23.8-20log(f/ 100) (1MHz ~ 100MHz)
	Power Sum Far End Cross Talk dB/ 40m	≧ 20.8-20log(f/ 100) (1MHz ~ 100MHz)
	Propagation Delay ns/ 40m	≦ 534+36/ SQRT(f) (1MHz ~ 100MHz)
	Propagation Delay Skew ns/ 40m	≦ 45 (1MHz ~ 100MHz)
	Test method	Conformable to ASTM D 4566
	Electric performances are complied with TIA/ EIA-568B.2 Enhanced Category 5.	
Bend performance	Bending performance Bending condition	300,000 time and over.(Reference value) Bend angle:± 90° ,Bend radius: 20mm Weight: 500gf ,Bend Speed: 35time/ min
	Sliding performance Sliding condition	One million time and over. (Reference value) Slide radius: 50mm ,Slide Distance: 350mm Slide Speed: 70time/ min
	Twisting performance Twisting condition	2.8 million time and over. (Reference value) Twist angle:± 180° ,Twist Speed: 15time/ min