

# SF-UTP Cat 6 LSZH (IEC 60332-3C) (#6259)

**Caleb Cable** Caleb Cable Industrial Limited

## Revision History

Part NO:RGW-2540-3	Price NO: RGW-03923
Prepared by:CXY	Date: 2017/02/09
Approved by:	Page: 1 of 1

**Product Code:** SF-UTP Cat 6 LSZH (IEC 60332-3C) (#6259)

## Product Description

### Application:

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
 IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T  
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM  
 IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

### Reference Standard

ISO/IEC 11801: 2011; IEC61156-5:2009;  
 EN50173; EN50288; TIA-568-C.2:2009

### Multi-construction

4 Pair

## Cable Construction

<b>1.Conductor</b>	<b>Bare Copper</b>
Construction	0.52±0.01
<b>2.Insulation</b>	<b>Solid PE</b>
Insulation Dia.(mm)	1.02±0.08×2C Twist
<b>Each Pair is Twisted ,Unshielded.</b>	
<b>3.Filler</b>	<b>Cross Member</b>
<b>4.Mylar Spiral</b>	<b>&gt;=125%</b>
<b>5.AI-Pet Shield</b>	<b>&gt;=125%</b>
<b>6.Braiding Shield</b>	<b>Tinned Copper</b>
Construction(mm)	T0.10±0.008×16×6
Coverage	50±5%
<b>7.Jacket</b>	<b>LSZH (IEC 60332-3C)</b>
Dia.(mm)	<b>7.20±0.20</b>
Jacket Color	<b>Black</b>

### Color

Insulation color are:

Blue, White/Blue	Orange, White/Orange
Green, White/Green	Brown, White/Brown

### Marking(ink white,one per meter)

RG Wire & Cable #6259 Cat 6 SF-UTP 24 AWG 4 Pr E478021 (UL) CMR  
 LSZH 250 MHz [metermark]

### Packaging

500M/Wooden Drum

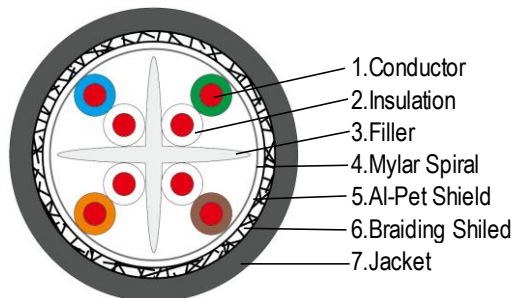
### Label

RG Wire & Cable Ltd
SF/UTP Cat 6 24 AWG 4 Pr Black
500M
RoHS2(2011/65/EU)Compliant
6259 RG???? WW/YY

### Revise record:

RGW-2540-3 2017-02-09 Add Jacket Color,Marking and Lable

## Design



## Electrical Characteristics

### Performance

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Return Loss (dB)
4.0	3.8	66.3	63.3	23.0
10.0	6.0	60.3	57.3	25.0
16.0	7.6	57.2	54.2	25.0
20.0	8.5	55.8	52.8	25.0
31.3	10.7	52.9	49.9	23.6
62.5	15.5	48.4	45.4	21.5
100.0	19.9	45.3	42.3	20.1
155.5	25.3	42.4	39.4	18.8
175.0	27.1	41.7	38.7	18.4
200.0	29.1	40.8	37.8	18.0
250.0	33.0	39.3	36.3	17.3

Frequency (MHz)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)
4.0	56.0	53.0
10.0	48.0	45.0
16.0	43.9	40.9
20.0	42.0	39.0
31.3	38.1	35.1
62.5	32.1	29.1
100.0	28.0	25.0
155.5	24.2	21.2
175.0	23.1	20.1
200.0	22.0	19.0
250.0	20.0	17.0

Max.Conductor DC Resistance at 20°C (Ω/Km)	<97.7
Insulation Resistance	700 - 1000V Min 2 MΩ
Screen Resistance (DC)	40Ω/km
Operating Temperature(°C)	-40 to 85
Transport Temperature(°C)	-40 to 70
Storage Temperature(°C)	-25 to 55
Velocity ratio	70%
Impedance(Ω)	1-100MHz 100±15 100-250MHz 100±20

Fire Performance: IEC 60332-3C and UL 444 CMR  
 Smoke Density: IEC61034  
 Halogen Free: IEC60754

