Cat6 Riser Unshielded Solid Bare Copper

SKU: TS-RBC/6-BL
23AWG • 4 Twisted Pairs • CMR
U/UTP • 550MHz • Solid Bare Copper

Lengths Available
• 1000ft

Jacket Colors

Key Features

- Bandwidth tested up to 550 MHz
- Suitable for 1 Gigabit and 5 Gigabit Ethernet up to 328 ft
- In compliance with ANSI/TIA 568.2-D
- RoHS-3 Compliant
- Easily identified color striped pairs
- Supports Power over Ethernet: PoE/PoE+/ PoE++ (IEEE 802.3af/at/bt) 4PPoE up to 100W
- Sequential footage markings every 2ft

Technical Data

Insulation	PE
Average Thickness (mm)	0.21
Min Point Thickness (mm)	0.193
Conductor Insulation Dia. (±0.02mm)	**0.96**
Twisted Pair Dia. (±0.02mm)	1.92
Ripcord	Nylon
Spline	Present
Polyethylene Tape	Not Present
Shielding	U/UTP

Conductor	Solid Bare Copper
Size	23AWG
Conductor Dia. (±0.05mm)	0.54

Color of Pairs	
Pair 1	Blue- White/Blue
Pair 2	Orange- White/Orange
Pair 3	Green- White/Green
Pair 4	Brown- White/Brown

Cable Jacket	PVC
Average Thickness (mm)	0.60
Min. Point Thickness (mm)	0.55
Outer Diameter (±0.2mm)	**5.90**

Standards Reference

ANSI/TIA 568-2.D

ISO/IEC 11801

RoHS compliant

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: CAT6 CMR UTP

Test Limit: TIA Cat 6 MPTL (+PoE)
Limits Version: V7.5 Date / Time: 03/03/2020 01:49:57 PM
Operator: LIXIAOHONG
Headroom 7.2 dB (NEXT 3,6-7,8)
Cable Type: Cat6 CMR U/UTP NVP: 68.2%

Main: Versiv
S/N: 1917273
Software Version: V6.5 Build 5
Calibration Date: 11/08/2019
Adapter: DSX-8000 (DSX-PLA804)
S/N: 4523168

Test Summary: PASS

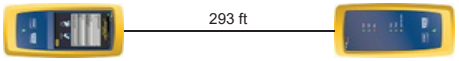
Remote: Versiv
S/N: 1924100
Software Version: V6.5 Build 5
Calibration Date: 11/08/2019
Adapter: DSX-8000R (DSX-PC6)
S/N: 4716104

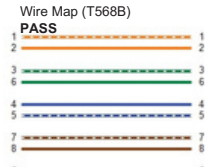
Length (ft), Limit 295	[Pair 4,5]	293	
Prop. Delay (ns), Limit 498	[Pair 7,8]	461	
Delay Skew (ns), Limit 44	[Pair 7,8]	24	
Resistance (ohms)	[Pair 7,8]	14.21	
Resist. Unbal. (ohms)	[Pair 4,5]	0.036	
Resist. P2P Unbal. (ohms)	[Pair 4,5-7,8]	0.144	
Insertion Loss Margin (dB)	[Pair 7,8]	1.4	
Frequency (MHz)	[Pair 7,8]	250.0	
Limit (dB)	[Pair 7,8]	31.1	

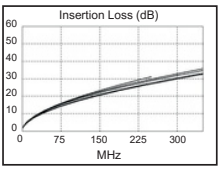
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-4,5	3,6-7,8	1,2-4,5
NEXT (dB)	7.2	10.0	7.3	10.0
Freq. (MHz)	224.5	244.5	246.0	244.5
Limit (dB)	36.1	35.5	35.5	35.5
Worst Pair	7,8	3,6	7,8	3,6
PS NEXT (dB)	8.3	9.7	8.6	9.9
Freq. (MHz)	221.5	234.0	246.5	250.0
Limit (dB)	33.6	33.2	32.8	32.7
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-1,2	1,2-4,5	4,5-1,2	4,5-1,2
ACR-F (dB)	11.6	11.8	12.5	12.7
Freq. (MHz)	4.4	4.4	246.5	242.0
Limit (dB)	51.4	51.4	16.4	16.5
Worst Pair	1,2	4,5	1,2	1,2
PS ACR-F (dB)	14.1	14.0	14.5	14.4
Freq. (MHz)	3.0	3.9	246.5	241.5
Limit (dB)	51.6	49.4	13.4	13.5
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	8.0	10.5	8.7	13.6
Freq. (MHz)	100.0	89.3	246.0	243.5
Limit (dB)	23.3	25.2	4.6	4.9
Worst Pair	7,8	7,8	7,8	3,6
PS ACR-N (dB)	9.2	12.3	9.9	13.5
Freq. (MHz)	99.8	10.5	246.5	250.0
Limit (dB)	20.8	49.5	2.0	1.6
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.5	3.5	13.5	3.5
Freq. (MHz)	3.9	50.0	230.5	50.0
Limit (dB)	21.0	17.0	10.4	17.0

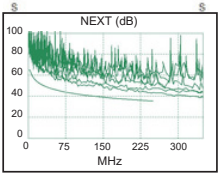
Compliant Network Standards:

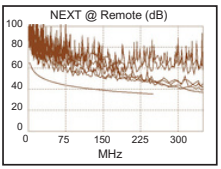
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		

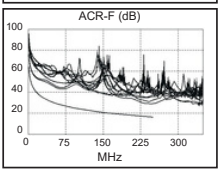


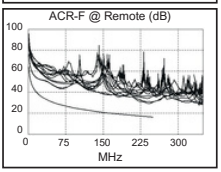


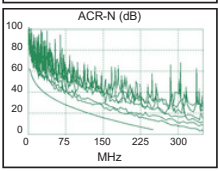


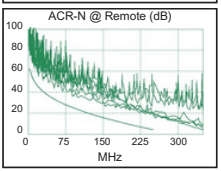


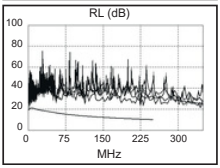


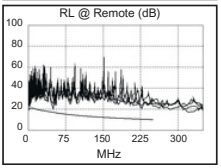












FLUKE networks

RoHS compliant

tscables.com
(301) 836-1195
(301) 825-9890

Electrical Characteristics

PoE Certification	PoE/PoE+/PoE++ 4PPoE
Maximum PoE Wattage	100W
PoE Application Compatibility	802.3af/at/bt Type 4
TIA 568-2.D Cat6 Permanent Link +PoE	CERTIFIED
Maximum Application Speed @ 295ft	5GBASE-T
Nominal Velocity of Propagation (NVP)	68.2
Maximum Operating Voltage	300V
1.0 - 550MHz Impedance (Ω)	100 ± 15
Maximum Operating Frequency	550MHz
1.0 - 550MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/km)	≤3300
Max. Conductor DC Resistance 20°C (Ω/km)	72.2

Mechanical & Environmental Operating Parameters

Test Object	Jacket	**Aging Condition (℃ x hrs)**	
Test Material	PVC	**After Tensile Strength (Mpa)**	
Before- Tensile Strength (Mpa)	≥13.8	**Aging Condition - Elongation (%)**	
Aging- Elongation (%)	≥100	**Cold Bend(-20 ± 2°C x 4hrs)**	
Min. Bend Radius	2.5cm/1.0in	**Operating & Storage Temp.**	
Max. Installation Tension	110N/25lb-ft	**Installation Temp.**	

RoHS compliant