

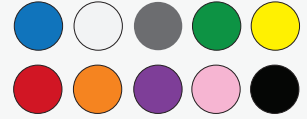
Cat6A Riser Unshielded

23AWG • 4 Twisted Pairs • CMR
U/UTP • 750MHz • Solid Copper

Lengths Available

- 1000ft

Jacket Colors



Key Features

- Bandwidth tested up to 750 MHz
- Suitable for 1 Gigabit and 10 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

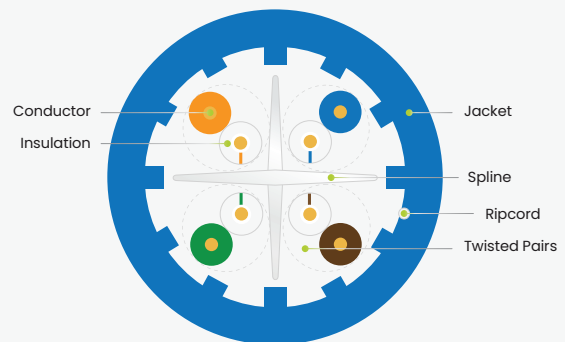
Insulation		PE	Color of Pairs	
Average Thickness (mm)		0.225	Pair 1	Blue- White/Blue
Min Point Thickness (mm)		0.207	Pair 2	Orange- White/Orange
Conductor Insulation Dia. (±0.02mm)		1.02	Pair 3	Green- White/Green
Twisted Pair Dia. (±0.02mm)		2.04	Pair 4	Brown- White/Brown
Ripcord		Nylon		
Spline		PE		
Polyethylene Tape		Not Present		
Shielding		U/UTP		
Conductor		Solid Bare Copper	Cable Jacket	
Size		23AWG	Average Thickness (mm)	PVC 0.60
Conductor Dia. (±0.05mm)		0.57	Min. Point Thickness (mm)	0.55
			Outer Diameter (±0.2mm)	7.30

Standards Reference

UL-444 /
cETLus

ANSI/TIA
568-2.D

ISO/IEC
11801



Print Legend

CAT6A CMR U/UTP 75°C 4PR 23AWG

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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 Cat6A Permanent Link +PoE	CERTIFIED
Maximum Application Speed @ 295ft	10GBASE-T
Nominal Velocity of Propagation (NVP)	69.1
Maximum Operating Voltage	300V
1.0 - 750MHz Impedance (Ω)	100 \pm 15
Maximum Operating Frequency	750MHz
1.0 - 750MHz Delay Skew (ns/100m)	\leq 45
Pair-to-Ground Capacitance Unbalance (pF/km)	\leq 3300
Max. Conductor DC Resistance 20°C (Ω /km)	72.2



Mechanical & Environmental Operating Parameters

Test Object	Jacket	Aging Condition ($^{\circ}\text{C} \times \text{hrs}$)	100 x 168
Test Material	PVC	After Tensile Strength (Mpa)	\geq 85% of unaged
Before- Tensile Strength (Mpa)	\geq 13.8	Aging Condition - Elongation (%)	\geq 50% of unaged
Aging- Elongation (%)	\geq 100	Cold Bend ($-20 \pm 2^{\circ}\text{C} \times 4\text{hrs}$)	No Crack
Min. Bend Radius	3.0cm/1.25in	Operating & Storage Temp.	-40°C to 75°C -40°F to 167°F
Max. Installation Tension	110N/25lb-ft	Installation Temp.	-20°C to 75°C -4°F to 167°F

Tested Compatible Accessories

Product

Part Number

Cat6A Punch Down Keystone Jack Unshielded	6APD90CMPT
Cat6A Toolless Keystone Jack Unshielded	6ATL90CMPT
Cat6/6A Standard RJ45 Connectors Unshielded	LGRJ45
Medium Slip-On RJ45 Strain Relief Boot 7.50mm	MDSLIP
Cat6A Field Term Plug Unshielded	6AFT



Cable ID: 6ACMR U/UTP PD KSJ > UTP STD LB CAT6/6A RJ45

Test Limit: TIA Cat 6A MPTL (+PoE)

Limits Version: V7.5

Date / Time: 05/31/2021 11:21:53 AM

Operator: DON S

Headroom 7.8 dB (NEXT 3,6-7,8)

Cable Type: Cat 6A U/UTP

NVP: 69.1%

Main: Versiv

S/N: 1924100

Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000 (DSX-PLA804)

S/N: 4523168

Test Summary: PASS

Remote: Versiv

S/N: 1917273

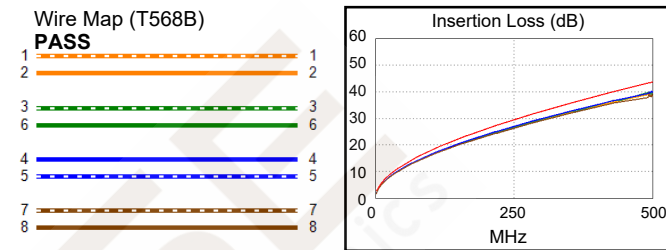
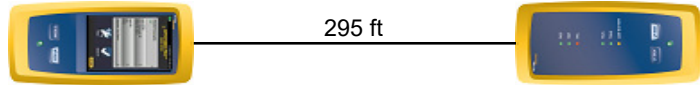
Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000R (DSX-PC6A)

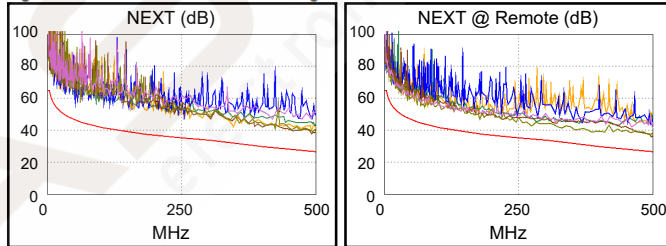
S/N: 4716155

Length (ft), Limit 295	[Pair 7,8]	295
Prop. Delay (ns), Limit 498	[Pair 4,5]	462
Delay Skew (ns), Limit 44	[Pair 4,5]	28
Resistance (ohms)	[Pair 4,5]	13.15
Resist. Unbal. (ohms)	[Pair 1,2]	0.099
Resist. P2P Unbal. (ohms)	[Pair 4,5-7,8]	0.141
Insertion Loss Margin (dB)	[Pair 4,5]	3.4
Frequency (MHz)	[Pair 4,5]	498.0
Limit (dB)	[Pair 4,5]	43.6

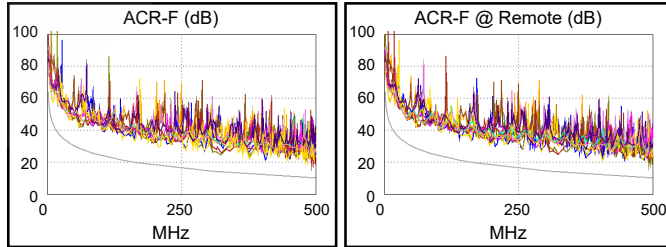


Worst Case Margin Worst Case Value

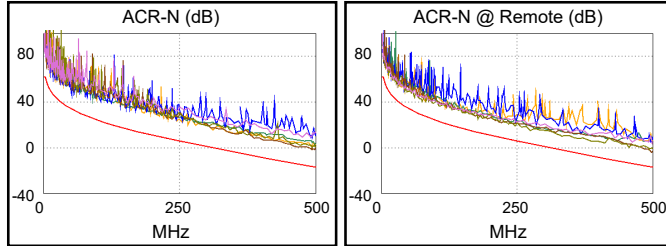
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	3,6-4,5	3,6-4,5
NEXT (dB)	10.3	7.8	11.0	9.2
Freq. (MHz)	347.0	383.0	492.0	497.0
Limit (dB)	31.9	30.5	26.9	26.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	10.3	8.9	10.5	9.8
Freq. (MHz)	347.0	274.0	492.0	497.0
Limit (dB)	29.2	32.0	24.0	23.8



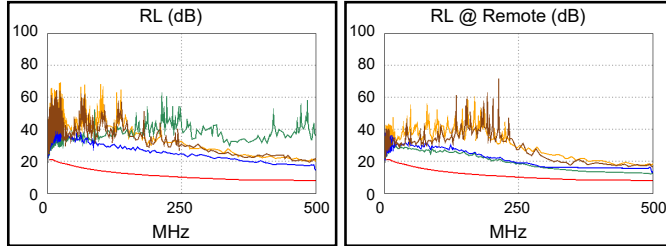
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	7.7	8.0	7.7	8.0
Freq. (MHz)	492.0	492.0	492.0	492.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	10.5	10.5	10.5	10.7
Freq. (MHz)	492.0	492.0	492.0	499.0
Limit (dB)	7.4	7.4	7.4	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	3,6-7,8	3,6-4,5	3,6-4,5
ACR-N (dB)	12.7	11.2	15.2	12.7
Freq. (MHz)	51.8	187.0	498.0	497.0
Limit (dB)	33.7	12.3	-16.9	-16.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	13.4	11.5	14.0	13.7
Freq. (MHz)	347.0	168.0	492.0	497.0
Limit (dB)	-6.2	11.9	-19.3	-19.7



PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	4,5	3,6
RL (dB)	6.1	3.8	6.5	3.8
Freq. (MHz)	3.8	479.0	499.0	479.0
Limit (dB)	21.0	8.0	8.0	8.0



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