Cat6
Unshielded Riser

23AWG • 4 Twisted Pairs • CMR • U/UTP
550MHz • Solid Copper

Packaging Available

- 500ft Reel
- 1000ft Pull Box

Jacket Colors

Key Features

- Bandwidth tested up to 550 MHz
- Suitable for 10-Gigabit Ethernet up to 165ft
- Easily Identified Color Striped Pairs
- Sequential Footage Markings Every 2ft
- In compliance with ANSI/TIA 568.2-D
- RoHS-3 compliant
- Supports PoE, PoE+, and PoE++
  (IEEE 802.3af/at/bt) up to 60W & 300V DC

Print Legend

trueCABLE CAT6 CMR 75C 4PR U/UTP 23AWG c(ETL)us VERIFIED to ANSI/TIA 568-2.D 550MHz ROHS-3 XXXXFT MM/YY

Technical Data

Operating Temp. Range	75ºC/167ºF
Max. Operating Voltage	300v
Bend Diameter Min.	2in/5mm

Insulation	PE
Average Thickness	0.210
Min Point Thickness	0.193
Conductor Insulation Dia. (±0.01mm)	**0.96**
Twisted Pair Dia. (±0.02mm)	1.92
Spline	PE

Jacket	PVC
Average Thickness	0.55
Min. Point Thickness	0.50
Overall Diameter (±0.1mm)	**5.90**
Ripcord	Yes

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

Conductor
Insulation
Spline
Jacket
Ripcord
Twisted Pairs
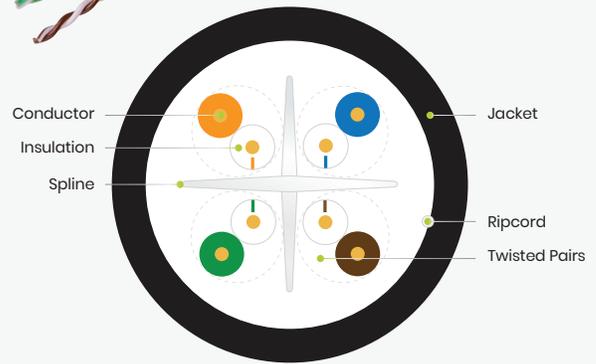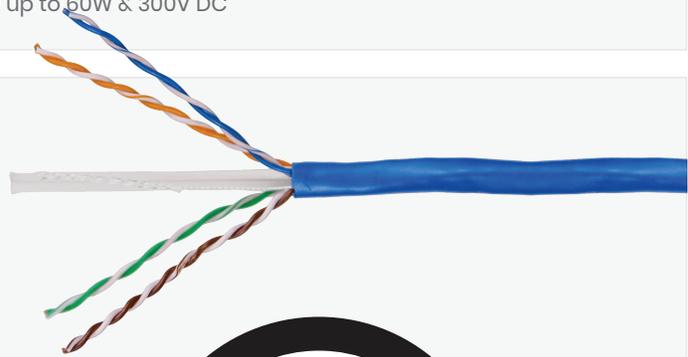
Color of Pairs

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

FLUKE CERTIFIED By trueCABLE   RoHS   certified PURE COPPER   ETL c us LISTED Intertek

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Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next (Min dB)
1	20.0	2.0	65.3
4	23.0	4.1	56.3
8	24.5	5.8	51.8
16	26.0	8.2	47.3
20	26.5	9.3	45.8
62.5	25.0	17.0	38.4
100	25.0	22.0	35.3
200	18.0	32.4	30.8
250	17.3	36.9	29.3
300	16.8	41.0	28.2
350	16.3	44.9	27.2
400	15.9	43.0	35.3
550	14.9	51.8	33.2

Frequency MHz	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6
200	27.8	17.7	14.7	536.5
250	26.3	15.8	12.8	536.3
300	25.2	14.2	11.2	536.1
350	24.2	12.9	9.9	535.9
400	33.3	12.8	9.5	535.8
550	31.2	12.5	9.2	535.5

1.0-500.0MHz Impedance (ohms)	100 ± 15
1.0-500.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=3300
Max. Conductor DC Resistance 20oC (ohms/km)	72.2
Resistance Unbalance (%)	<=5

Mechanical Characteristics

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	>=13.8
Aging Elongation (%)	>=100
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged
Cold Bend (-20+2° Cx4hrs)	No Crack

We ship direct from our high service factory.

Forever Warranty.
Forever Covered.

FLUKE CERTIFIED By trueCABLE

RoHS

certified PURE COPPER

ETL LISTED c us Intertek

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CAT6
CMR RISER
BLUE
550MHz | 1000ft

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LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

✅

Cable ID: 6ECMR MPTL UTP PD KSJ TO PASS-THROUGH RJ45   **Test Summary: PASS**

Test Limit: TIA Cat 6 MPTL (+PoE)	Main: Versiv	Remote: Versiv
Limits Version: V7.5	S/N: 1917273	S/N: 1924100
Date / Time: 03/03/2020 01:49:57 PM	Software Version: V6.5 Build 5	Software Version: V6.5 Build 5
Operator: DON S	Calibration Date: 11/08/2019	Calibration Date: 11/08/2019
Headroom 7.2 dB (NEXT 3,6-7,8)	Adapter: DSX-8000 (DSX-PLA804)	Adapter: DSX-8000R (DSX-PC6)
Cable Type: *trueCABLE Cat6 U/UTP*	S/N: 4523168	S/N: 4716104
NVP: 68.2%		

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

293 ft
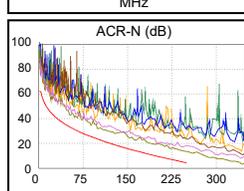
Wire Map (T568B)
PASS

Insertion Loss (dB)
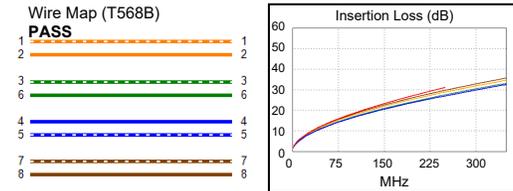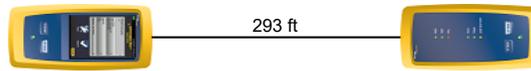
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-4,5	3,6-7,8	1,2-4,5
NEXT (dB)	7.2	10.0	7.3	10.0
Freq. (MHz)	224.5	244.5	246.0	244.5
Limit (dB)	36.1	35.5	35.5	35.5
Worst Pair	7,8	3,6	7,8	3,6
PS NEXT (dB)	8.3	9.7	8.6	9.9
Freq. (MHz)	221.5	234.0	246.5	250.0
Limit (dB)	33.6	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
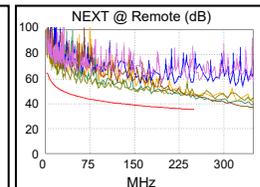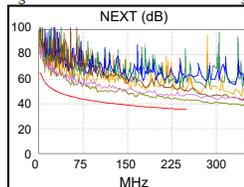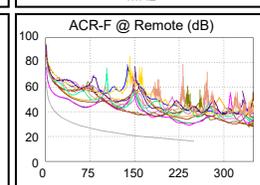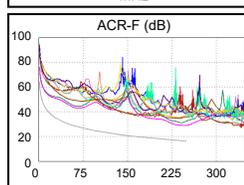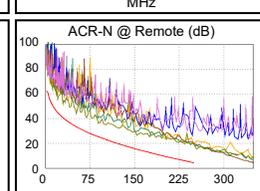
NEXT (dB)

NEXT @ Remote (dB)

ACR-F (dB)

ACR-F @ Remote (dB)

ACR-N (dB)

ACR-N @ Remote (dB)

RL (dB)

RL @ Remote (dB)
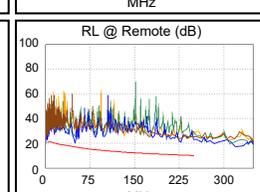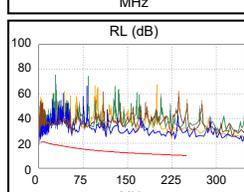
Compliant Network Standards:

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		

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