Cat6 Shielded Plenum

SKU: TS-SPBC/6-BK-1
23AWG • 4 Twisted Pairs • CMP • F/UTP
550MHz • Solid Copper

Packaging Available

• 1000ft Reel

Jacket Colors

Key Features

- Bandwidth tested up to 550 MHz
- 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

CAT6 550MHz CMP PLENUM F/UTP 4-PAIR
23AWG EIA/TIA-568-C.2-1
0002FT-1000FT

Technical Data

Operating Temp. Range	75°C/167°F
Max. Operating Voltage	300v
Bend Diameter Min.	4in/10mm

Insulation	**HDPE**
Average Thickness	0.248
Min Point Thickness	0.228
Conductor Insulation Dia. (±0.01mm)	**1.08**
Twisted Pair Dia. (±0.02mm)	2.16
Spline	PE
PE-Tape	Yes

Jacket	**CMP-PVC**
Average Thickness	0.60
Min. Point Thickness	0.55
Overall Diameter (±0.1mm)	**7.00**
Ripcord	Yes

Shield	**FTP**
Drain Wire (Solid Tinned Copper)	0.40
AL Foil Shield	Yes

Conductor	**Solid Bare Copper**
Size	23AWG
Conductor Dia. (±0.05mm)	0.585

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

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: 490 FTP4 CAT6 0.565CU -1

Test Summary: PASS

Test Limit: TIA Cat 6 Perm. Link
Limits Version: V7.6
Date / Time: 12/22/2021 04:26:49 PM
Operator: LIXIAOHONG
Headroom 0.6 dB (NEXT 1,2-4,5)
Cable Type: Cat 6 F/UTP
NVP: 70.0%

Main: Versiv
S/N: 2034142
Software Version: V6.6 Build 2
Calibration Date: 12/23/2020
Adapter: DSX-8000 (DSX-PLA804)
S/N: 20475125

Remote: Versiv
S/N: 2035009
Software Version: V6.6 Build 2
Calibration Date: 12/23/2020
Adapter: DSX-8000R (DSX-PLA804)
S/N: 20485133

Length (ft), Limit 295	[Pair 7,8]	318
Prop. Delay (ns), Limit 498	[Pair 4,5]	486
Delay Skew (ns), Limit 44	[Pair 4,5]	24
Resistance (ohms)	[Pair 4,5]	14.65
Insertion Loss Margin (dB)	[Pair 4,5]	4.7
Frequency (MHz)	[Pair 4,5]	250.0
Limit (dB)	[Pair 4,5]	31.1

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-4,5	1,2-4,5	1,2-4,5	1,2-4,5
NEXT (dB)	2.3	0.6*	2.3	0.7
Freq. (MHz)	233.5	207.5	233.5	208.0
Limit (dB)	35.8	36.7	35.8	36.6
Worst Pair	1,2	3,6	1,2	1,2
PS NEXT (dB)	3.1	2.1	3.2	2.5
Freq. (MHz)	230.5	87.0	249.0	208.5
Limit (dB)	33.3	40.3	32.7	34.0

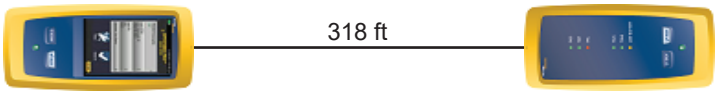
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
ACR-F (dB)	11.4	11.2	12.2	12.2
Freq. (MHz)	152.0	152.0	198.0	200.0
Limit (dB)	20.6	20.6	18.3	18.2
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	12.0	11.8	12.1	11.8
Freq. (MHz)	174.5	173.0	175.0	173.0
Limit (dB)	16.4	16.4	16.3	16.4

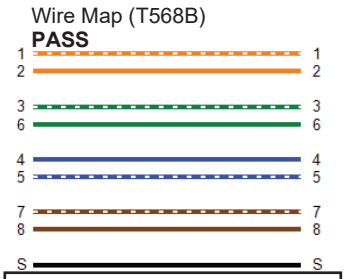
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-4,5	1,2-4,5
ACR-N (dB)	5.9	4.3	8.3	4.4
Freq. (MHz)	72.0	87.0	249.0	208.0
Limit (dB)	28.6	25.6	4.3	8.7
Worst Pair	3,6	3,6	1,2	1,2
PS ACR-N (dB)	6.0	4.2	8.3	10.1
Freq. (MHz)	76.0	87.0	249.0	245.0
Limit (dB)	25.3	23.1	1.7	2.1

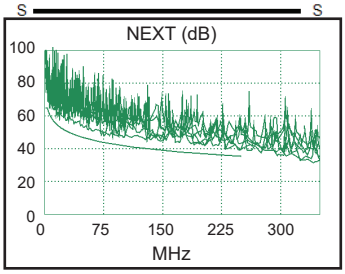
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	7,8
RL (dB)	0.2*	0.4*	0.2	1.8
Freq. (MHz)	162.5	67.0	162.5	105.5
Limit (dB)	11.9	15.7	11.9	13.8

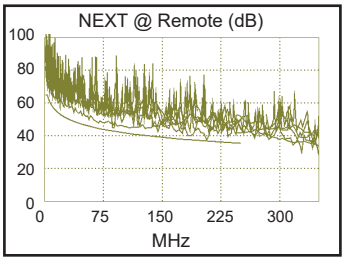
Compliant Network Standards:

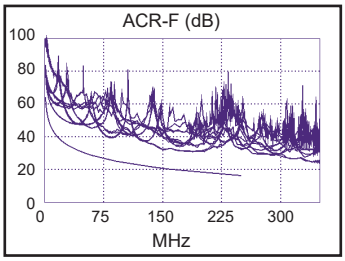
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		

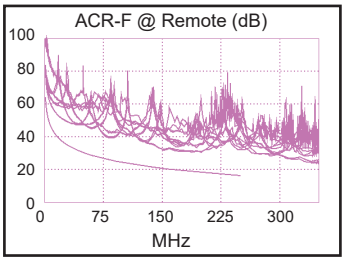


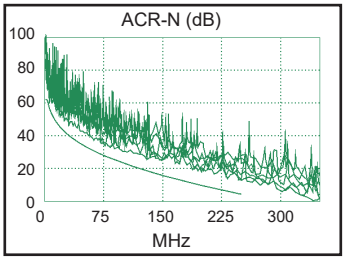


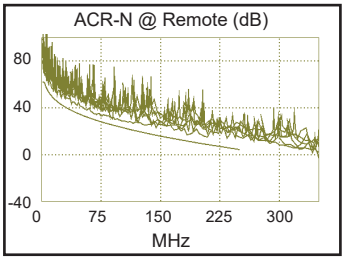


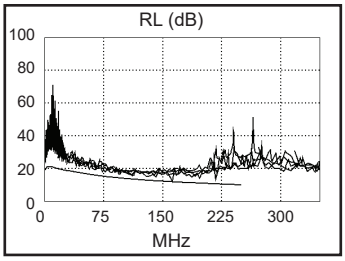


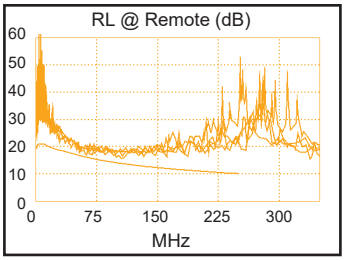












* Measurement is within the accuracy limits of the instrument.

FLUKE networks

Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next (Min dB)
1	21.0	1.9	65.0
4	23.4	3.5	64.1
8	24.6	5.0	59.4
16	25.0	7.0	54.6
20	25.0	7.8	53.1
62.5	21.5	14.0	45.1
100	20.1	18.0	41.8
200	18.0	26.1	36.9
250	17.3	29.5	36.1
350	16.3	39.8	35.3
400	15.9	43.0	34.5
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	62.0	64.2	61.2	520.5
4	61.8	52.1	49.1	504.3
8	57.0	46.1	43.1	499.6
16	55.5	40.1	37.1	496.2
20	50.7	38.2	35.2	495.3
62.5	42.7	28.3	25.3	492.2
100	39.3	24.2	21.2	491.3
200	34.3	18.2	15.2	490.4
250	32.7	16.2	13.2	490.1
350	32.5	16.0	13.0	490.0
400	32.0	15.8	12.8	490.0
550	31.2	13.0	10.0	490.0

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)	68
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

Returns? No problem.
Guarantee? Of course