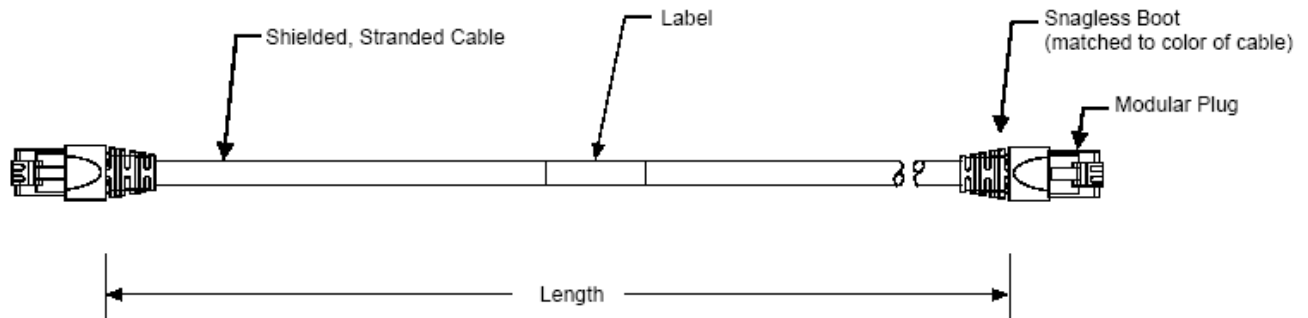


# Category 6A Shielded Cable Assemblies

1499828-X, 1499825-X, 1499826-X, 1499830-X, 1499829-X, 1499480-X,  
1499827-X, 1499831-X, 1499832-X



## Description

AMP NETCONNECT XG Category 6A shielded patch cable assemblies meet or exceed channel specifications of ANSI/TIA/EIA-568-B.2-10 Category 6A and ISO/IEC 11801:2002/Amd 1:2008 Class EA up to 500 MHz when used as a component in a properly installed AMP NETCONNECT XG F/UTP channel. The AMP NETCONNECT XG Category 6A F/UTP System complies with all of the performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-Tx), 10/100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog and digital video, analog and digital voice (VoIP), and exceeds all requirements for IEEE 802.3an 10 Gigabit Ethernet on all parameters.

AMP NETCONNECT XG Category 6A shielded patch cable assemblies are manufactured using patented techniques that create consistent performance superior to standard cable assemblies. AMP NETCONNECT XG Category 6A shielded cable assemblies are riser rated and constructed using colored, stranded cable and matching colored snag less boots.

## Specification (text in brackets [ ] requires a choice)

Category 6A shielded patch cable assemblies shall be constructed using modular plugs with 50µm gold-plated contacts, and shall be wired to the T568A wiring pattern. Cable assemblies shall utilize colored cable and "snag less" cable boots that match the color of the cable. Cable assemblies shall be constructed of stranded conductors which shall be surrounded by a shield and covered with [black, gray, blue, green, red, white, yellow, orange or violet] colored jacket. Cable assemblies shall meet all the requirements of TIA 568-B.2-10 as well as the performance requirements listed in the following table:

[include Performance Characteristics tables from page 2].

Cable shall be independently tested for performance to the following specifications:

1. ANSI/TIA/EIA-568-B.2-10
2. ISO/IEC 11801:2002/Amd 1:2008
3. IEEE 802.3an

Cable assemblies shall be AMP NETCONNECT part number [1499828-X, 1499825-X, 1499826-X, 1499830-X, 1499829-X, 1499480-X, 1499827-X, 1499831-X or 1499832-X

(X denotes length, see part number table for details)].

Black	Gray	Blue	Green	Red	White	Yellow	Orange	Violet
1499828-X	1499825-X	1499826-X	1499830-X	1499829-X	1499480-X	1499827-X	1499831-X	1499832-X

Dash number (-X) specifies length in Feet.

# Category 6A Shielded Cable Assemblies

1499828-X, 1499825-X, 1499826-X, 1499830-X, 1499829-X, 1499480-X,  
1499827-X, 1499831-X, 1499832-X



## Channel Performance Characteristics (meet or exceed ANSI/EIA/TIA, ISO/IEC and IEEE requirements)

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	Return Loss (dB)	Prop Delay (ns/100m)	Prop Delay Skew (ns)	TCL (dB)	ELTCL / TCTL (dB)	PSANEXT (dB)	PSAACRF / PSANEXT (dB)
0.772	2.1	65.0	62.0	65.5	62.5	19.0	585.0	50.0	40.0	32.2	67.0	67.0
1	2.3	65.0	62.0	63.3	60.3	19.0	580.0	50.0	40.0	30.0	67.0	67.0
4	4.2	63.0	60.5	51.2	48.2	19.0	562.0	50.0	40.0	18.0	67.0	65.0
8	5.8	58.2	55.6	45.2	42.2	19.0	556.7	50.0	39.5	11.9	67.0	58.9
10	6.5	56.6	54.0	43.3	40.3	19.0	555.4	50.0	38.0	10.0	67.0	57.0
16	8.2	53.2	50.6	39.2	36.2	18.0	553.0	50.0	34.9	5.9	67.0	52.9
20	9.2	51.6	49.0	37.2	34.2	17.5	552.0	50.0	33.5	4.0	67.0	51.0
25	10.2	50.0	47.3	35.3	32.3	17.0	551.2	50.0	32.0	2.0	66.0	49.0
31.25	11.5	48.4	45.7	33.4	30.4	16.5	550.4	50.0	30.4	N/A	65.1	47.1
62.5	16.4	43.4	40.6	27.3	24.3	14.0	548.6	50.0	24.4	N/A	62.0	41.1
100	20.9	39.9	37.1	23.3	20.3	12.0	547.6	50.0	20.3	N/A	60.0	37.0
200	30.1	34.8	31.9	17.2	14.2	9.0	546.5	50.0	14.3	N/A	55.5	31.0
250	33.9	33.1	30.2	15.3	12.3	8.0	546.3	50.0	12.3	N/A	54.0	29.0
300	37.4	31.7	28.8	13.7	10.7	7.2	546.1	50.0	10.8	N/A	52.8	27.5
400	43.6	28.7	25.8	11.2	8.2	6.0	545.8	50.0	8.3	N/A	51.0	24.9
500	49.3	26.1	23.2	9.28	6.3	6.0	545.6	50.0	6.3	N/A	49.5	23.0

## Technical Details

Materials	
Conductors –	26 AWG, 7/34 stranded copper
Insulation –	Polyolefin
Jacket –	FR Polyolefin, 0.240 in nominal diameter
Boot –	Elastomer Polyolefin
Plug housing –	clear polycarbonate
Terminals –	Copper-tin-phosphor alloy with 50µm gold plating on selected area, gold flash over the remainder, > 100µm nickel under plate
Electrical Characteristics	
Capacitance –	13.5 pf/ft. at 1 MHz
Impedance –	100 ohms ± 15%, 1 MHz to 100 MHz
Voltage –	150VAC max
Mechanical Characteristics	
Operating Temperature –	-20 to 60°C
Bending Radius –	The minimum bending radius is 8x outside diameter during installation and 4x the outside diameter after installation.
Tensile Strength –	50 N
Approvals	
UL File Number	E138034
UL	444
RoHS	Compliant
FCC PART 68	SUBPART F

Specifications subject to change without notice. Revised 06/08

<http://www.ampnetconnect.com/thailand>

