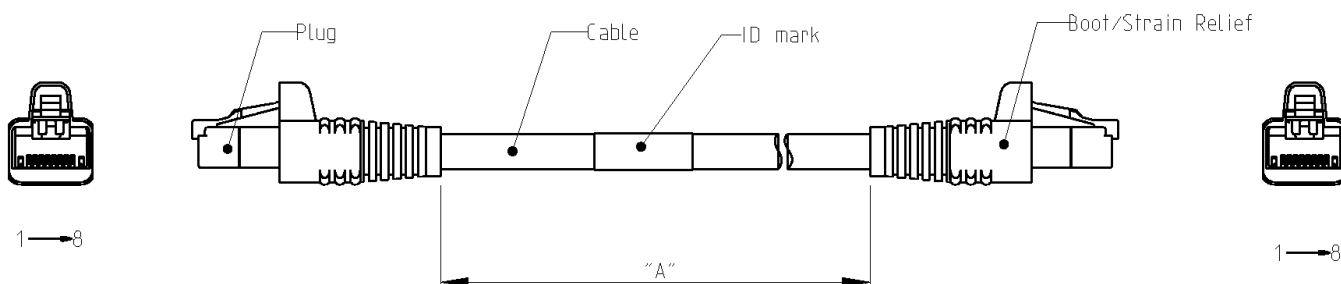


# Category 6A XG S/FTP Cable Assemblies

y-959385-x, y-1711079-x, y-1711076-x, y-1711078-x, y-1711080-x, y-1711077-x  
y-1711814-x, y-1711535-x, y-1711802-x, y-1711405-x



## Description

AMP NETCONNECT XG S/FTP Category 6A shielded patch cable assemblies meet or exceed channel specifications of ANSI/TIA/EIA-568-B.2-10, ANSI/TIA/EIA-568-C Category 6<sub>A</sub> and ISO/IEC 11801:2002/Amd 1:2008 Class E<sub>A</sub> up to 500 MHz when used as a component in a properly installed AMP NETCONNECT XG S/FTP channel. The AMP NETCONNECT XG Category 6A S/FTP 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. 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 LSZH (Low Smoke Zero Halogen) rated and constructed using colored, stranded cable and match cable 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, Universal wiring (T568A/T568B) pattern. Cable assemblies shall utilize colored cable and match color snag less boot. 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, violet and pink] colored jacket which LSZH rated complied to IEC 332-1/IEC 60332-1 fire propagation delay, IEC 1034 Smoke Emission, IEC754-1/IEC 60754-1 and IEC 754-2/IEC 60754-2 Acid Gas Emission and IEC 61034. Cable assemblies shall meet all the requirements of TIA 568-B.2-10 and TIE/EIA 568-C.2 Category 6<sub>A</sub> as well as the performance requirements listed in the following table:

Cable assemblies shall be AMP NETCONNECT part number [Y-959385-X, Y-1711079-X, Y-1711076-X, Y-1711078-X, Y-1711080-X, Y-1711077-X, Y-1711814-X, Y-1711535-X, Y-1711802-X, Y-1711405-X]

(Y- -X denotes length, see part number table for details)

## Part Number

Black	Gray	Blue	Green	Red	White	Yellow	Orange
Y-1711405-X	Y-1711076-X	Y-1711079-X	Y-1711077-X	, Y-1711080-X	Y-959385-X	Y-1711078-X	Y-1711814-X
Violet	Pink						
Y-1711535-X	Y-1711802-X						

Dash number (Y- -X) specifies length in Meter.

# Category 6A XG S/FTP Cable Assemblies

y-959385-x, y-1711079-x, y-1711076-x, y-1711078-x, y-1711080-x, y-1711077-x  
y-1711814-x, y-1711535-x, y-1711802-x, y-1711405-x



Channel Performance Characteristics (meet or exceed TIA/EIA 568-C.2, ISO/IEC 11801 Class E<sub>A</sub> 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 / PSAFEXT (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

<b>Materials</b>	
Conductors –	26 AWG, 7/34 stranded copper CAT 7 Performance
Insulation –	Polyethylene 0.89mm OD min, 1.09mm OD max
Individual Pair Scream –	Plastic Laminated Aluminum Foil
Overall Shield Scream –	Copper Braid Tinned Plating 45% Coverage
Jacket –	LSZH, 5.9 ± 0.3 mm 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
<b>Electrical Characteristics</b>	
Capacitance –	13.5 pf/ft. at 1 MHz
Impedance –	100 ohms ± 15%, 1 MHz to 100 MHz
Voltage –	150VAC max
<b>Mechanical Characteristics</b>	
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
<b>Approvals</b>	
RoHS Compliant	
FCC PART 68 SUBPART F	

Specifications subject to change without notice.

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