

# ADTRONICS® AD-JC6A

ADTRONICS 6A Snap-In Connector Cat 6A 500MHz Screened

## Description

### Application

ADTRONICS AD-JC6A Snap-In Connector is a screened RJ45 cable jack specified up to 500MHz. It is designed specifically to support the high frequencies required for 10 Gigabit Ethernet, but is also fully backwards-compatible with lower frequency applications using the RJ45 interface. ADTRONICS AD-JC6A uses a fully closed rear cover, which provides 360° screening and excellent coupling attenuation to ensure immunity from alien crosstalk and other external interference. Cabling channels with ADTRONICS AD-JC6A cable jack have not to be verified on site for Alien Crosstalk, as this new 10G parameter is met by design. This reduces significantly the cost for 10G networking.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- POE Plus / PoE ++
- all future Cat 6A and Class EA applications
- ANSI/TIA/EIA

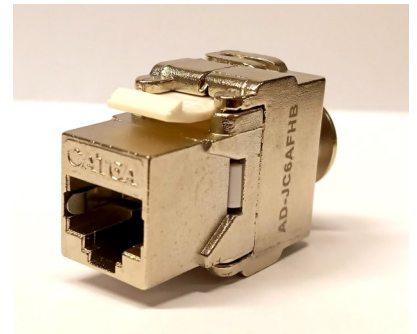
### Performance

The ADTRONICS AD-JC6A has outstanding electrical performance up to 500MHz especially for NEXT/FEXT, Power Sum NEXT/FEXT, Return Loss and all screening parameters. This enables to achieve high performing Cat 6A channels as well as very short link and channel configurations needed in data centres with up to 3 connection points within 12 meters.

### Installation

ADTRONICS AD-JC6A makes use of ADTRONICS wire organiser and is therefore very easy and fast to terminate. Using the ADTRONICS comfort tool installation tool Snap-In series is re-usable. A stranded version is available to allow the use of flexible stranded cable in cross connects or consolidation point.

The ADTRONICS AD-JC6A fits in all structural hardware designed for the Snap-In range and can be used in all positions of a 4 connector twisted pair cabling channel (PP, CC, CP, TO).



### Standards

International EN 50173:2007;  
EN 50173-3; IEC 60603-7-51;  
IEEE 802.3af (PoE);  
IEEE 802.3at (PoE Plus);  
IEEE 802.3bt (PoE ++);  
ISO 8877 / FCC part 68;  
ISO/IEC 11801 2nd Ed. Amd 1.0, Amd 2.0;  
ISO/IEC 11801:2002 /Amd 1:2008/Cor 1:2008;  
ISO/IEC 24764;  
ISO/IEC 11801:2002/Amd 2:2010/Cor 1:2010;  
National ANSI/EIA/TIA-568-C.2.

# ADTRONICS® AD-JC6A

## ADTRONICS 6A Snap-In Connector Cat 6A 500MHz Screened

- Fast termination with exclusive wire organizer and hinging metal EMC rear cover
- Colour code : T568A & T568B
- 360° EMC protection
- Re-usable with universal comfort tool
- Accepts solid wire from 22 to 26 AWG
- Stranded version available for consolidation point
- Snap-in format fits in all ADTRONICS structural hardware
- 2 possibilities to terminate the drain wire : on the housing or on the rear cover
- Can be turned into keystone format using an additional adapter
- Passes all tests for POE Plus Requirements (IEC 60512-99-001 Ed.1)
- U/UTP, S/UTP, F/UTP, SF/UTP, U/FTP, S/FTP, F/FTP, SF/FTP

### Guarantees

When installed in combination with other ADTRONICS® AD-JC6A components, a 25 years channel warranty can be obtained, covering full 10GBase-T support and full Cat 6A/Class EA compliance

### Characteristics

Construction characteristics	
Screen	Yes
Connector type	RJ45 and Tool-less IDC
Dimensional characteristics	
Height	23.2 mm
Width	16.8 mm
Depth	36.4 mm
Usage characteristics	
Component function	Connector
Category	Cat. 6A

### Reference

Description	References
Connector Cat 6A U/UTP 500MHz	AD-JC6AUHB
Connector Cat 6A S/UTP 500MHz	AD-JC6ASHB
Connector Cat 6A F/UTP 500MHz	AD-JC6AFHB
Connector Cat 6A U/FTP 500MHz	AD-JC6AUFHB
Connector Cat 6A S/FTP 500MHz	AD-JC6ASFHB
Connector Cat 6A F/FTP 500MHz	AD-JC6AFFHB

# ADTRONICS® AD-JC6A

ADTRONICS 6A Snap-In Connector Cat 6A 500MHz Screened

## Electrical Performance Connector Channel

"All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1 Minimal and maximum values represent guaranteed channel performance"

Freq in MHz	Attn in dB		NEXT in dB			PSNEXT in dB			ACR-F in dB	
	Max	Typ	Std	Min	Typ	Std	Min	Typ	Std	Typ
1	<4	4.0	65.0	67.0	85.0	62.0	64.0	74.8	63.3	69.9
4	4.1	4.1	63.0	65.0	72.9	60.5	62.5	65.0	51.2	57.9
10	6.4	6.3	56.6	58.6	65.0	54.0	56.0	58.5	43.3	49.9
16	8.1	8.0	53.2	55.2	60.9	50.6	52.6	55.1	39.2	45.9
20	9.1	9.0	51.6	53.6	59.0	49.0	51.0	53.5	37.2	43.9
31.25	11.4	11.2	48.4	50.4	55.1	45.7	47.7	50.2	33.4	40.0
62.5	16.3	15.9	43.4	45.4	49.1	40.6	42.6	45.1	27.3	34.0
100	20.8	20.2	39.9	41.9	45.0	37.1	39.1	41.6	23.3	29.9
155	26.2	25.4	36.7	38.7	41.2	33.8	35.8	38.3	19.5	26.1
200	30.0	28.9	34.8	36.8	39.0	31.9	33.9	36.4	17.2	23.9
250	33.8	32.5	33.1	35.1	37.0	30.2	32.2	34.7	15.3	22.0
300	37.3	35.7	31.7	33.7	35.4	28.8	30.8	33.3	13.7	20.4
500	49.3	46.7	27.9	29.9	31.0	24.8	26.8	24.9	9.3	16.0

Freq in MHz	PS ACR-F in dB		PS ANEXT in dB			PS AACR-F in dB			RL in dB		
	Std	Typ	Std	Min	Typ	Std	Min	Typ	Std	Min	Typ
1	60.3	66.9	80.0	90.0	92.0	77.0	92.0	94.0	19.0	21.0	21.0
4	48.2	54.9	74.0	89.0	91.0	65.0	80.0	82.0	19.0	21.0	32.0
10	40.3	46.9	70.0	85.0	87.0	57.0	72.0	74.0	19.0	21.0	28.0
16	36.2	42.9	68.0	83.0	85.0	52.9	67.9	69.9	18.0	20.0	26.0
20	34.2	40.9	67.0	82.0	84.0	51.0	66.0	68.0	17.5	19.5	25.0
31.25	30.4	37.0	65.1	80.1	82.1	47.1	62.1	64.1	16.5	18.5	23.1
62.5	24.3	31.0	62.0	77.0	79.0	41.1	56.1	58.1	14.0	16.0	20.0
100	20.3	26.9	60.0	75.0	77.0	37.0	52.0	54.0	12.0	14.0	18.0
155	16.5	23.1	57.1	72.1	74.1	33.2	48.2	50.2	10.1	12.1	16.1
200	14.2	20.9	55.5	70.5	72.5	31.0	46.0	48.0	9.0	11.0	15.0
250	12.3	19.0	54.0	69.0	71.0	29.0	44.0	46.0	8.0	10.0	14.0
300	10.7	17.4	52.8	67.8	69.8	27.5	42.5	44.5	7.2	9.2	13.2
500	6.3	13.0	49.5	64.5	66.5	23.0	38.0	40.0	6.0	8.0	11.0