Amphenol Modular Jacks product catalogue



Amphenol

The Company

Amphenol Commercial Products Group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation, is an ISO 9001 certified facility located in Toronto, Canada. Our activities are dedicated to the design, development, and manufacturing of interconnect products intended for use in the data communications and telecommunications markets. Our expertise in understanding and supporting our customers' interconnect needs has earned Amphenol Canada a reputation of quality and excellence among the world's leading users of electronic components.

About the Catalogue

1

This modular jack catalogue represents some of our more popular products within this product category. Other product categories include, but are not limited to: D-Sub, Micro-Ribbon, USB, Headers and Sockets, CoolPower connectors, VHDCI, Capacitively Decoupled BNC, filtered connectors (D-Subs and micro-ribbon), and rugged connectors (RJ, USB, D-Subs, and bulkhead adapters).

All of our modular jacks are RoHS compliant.

All drawings in this document are measured in inches [mm], unless otherwise indicated.



Notice: Specifications are subject to change without notice. Contact your nearest Amphenol sales office for the latest specifications. All statements, information, and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed, or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommended to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Amphenol and RJ vista are registered trademarks.

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Note:	Denotes LEDs are available for connector	s in the series

Note: Denotes LEDs are available for connectors in the series

Vertical (Top Entry)

> THROUGH-HOLE

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LED OPTIONS

LED Designation

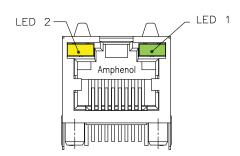
LED	LED 2		LED 1	
Code	Left		Right	
0	Bloc	cked	Blocked	
1	Yel	low	Green	
2	Bloc	cked	Green	
3	Yel	low	Bloc	cked
4	Gre	een	Yel	low
5	Gre	een	Gre	een
6	Yel	low	Yel	low
7	R	ed	Gre	een
8	Gre	een	R	ed
9	Gre	een	Bloc	cked
A	Green	Yellow	Green	Yellow
В	Red	Green	Red	Green
С	Red	Green	Green	Yellow
D	Gre	een	Green	Yellow
E	Yel	low	Green	Yellow
F	Green	Yellow	Yellow	
G	Green	Orange	Green	Orange
Н	Green	Yellow	Green	
J	Red	Green	Yel	low
K	Yel	low	Green	Orange
L	Green	Yellow	R	ed
M	R	ed	Yellow	
N	Green	Red	Green	Yellow
Р	Gre	een	Red	Green
R	Green	Orange	Gre	een
Т	Red		R	ed
V	Red	Green	Gre	een

Ex. RJHSE - 538X*

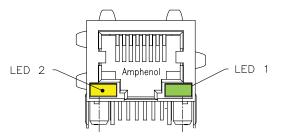
*LED Designation Code

Note: A black X in the part number refers to the LED designation code for all drawings in this catalogue.

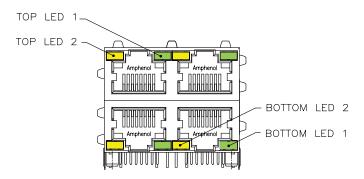
Tab Up Connectors:



Tab Down Connectors:



Stacked Connectors:

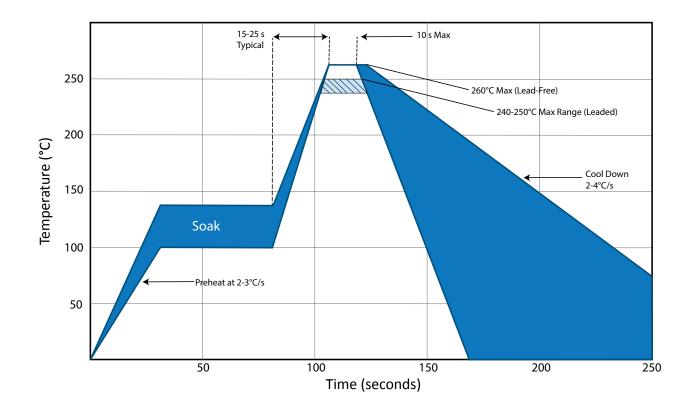


Other LED options are available. If you do not see what you're looking for,

please email sales@amphenolcanada.com to request the complete the LED ordering options.

REFLOW PROFILE

Typical Wave Solder Profile for Leaded and Lead-Free Through-Hole Package



RJHSE - X X X X - XX

TAB UP, MULTIPORT, WITH LEDs

A series of EMI Quiet Modular Jack connectors with built-in LEDs. This product is ideal for LAN applications such as adapter cards and routers. Shielded and non-shielded versions are available, with a variety of LED colors and ports.

SPECIFICATIONS

Material				
Insulator:	. .	High temp. thermoplastic; Complies with UL 94V-0; Black		
Contacts:	options (6µ contact ma	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on soldering tail		
Shield:	Stainless st	Stainless steel with tin dipped tails		
LED:	Tin plating	Tin plating on LED tails		
Mechanica	al			
Insertion Force:		5 lbs max.		
Pull Retentio	n Force:	20 lbs min.		
Durability:		750 mating & unmating cycles		
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max.		
Operating Temperature:		-55°C to + 85°C		
UL File #:		E135615		
CSA File #:		LR685398		

Electrical

Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:125 Volts AC	
DWV:	1000 VAC, 60 Hz. 1 min.
Standard LEDs:	For 5.0 V Systems
Forward Voltage:	2.1 Volts typical
Reverse Voltage:	6 Volts min.
Luminous Intensity:	0.5 mcd min. at 2mA
Low Current LEDs:	For 3.3 V Systems
Forward Voltage:	2 Volts typical
Reverse Voltage:	6 Volts min.
Luminous Intensity:	1 mcd min. at 2mA

Note: Vertical version is only available in single port

Number of Ports Blank - 1 Port

02 - 2 Ports

03 - 3 Ports

04 - 4 Ports

06 - 6 Ports 08 - 8 Ports

LED Options

4 - 4 Contacts

6 - 6 Contacts 8 - 8 Contacts

Click to view page 3 for options

Number of Contacts

ORDERING INFORMATION

Version

- 3 Vertical mount, 8 positions, $30\mu^{\prime\prime}$ gold plating
- 5 Right angle, 8 positions, $50\mu^{\prime\prime}$ gold plating

*Note: Connectors without LEDs are suitable for IR Reflow

- 7 Right angle, 6 positions, $50\mu^{\prime\prime}$ gold plating
- L Right angle, low profile, 8 positions, $50\mu^{\prime\prime}$ gold plating
- N Vertical mount, 8 positions, $50\mu^{\prime\prime}$ gold plating

Shield Options

- 0 No shield
- 3 Shield with top and side tabs (single port has top tabs only)
- 4 For single port only: Shield with top and side tabs
- F Shield without top, side or bottom tabs
- P Shield with top & bottom tabs, for vertical mount connector

Didn't	find	what	vou	were	looking	for?
Dian c			,		looking	

5

Please contact sales@amphenolcanada.com and let us know what you need.





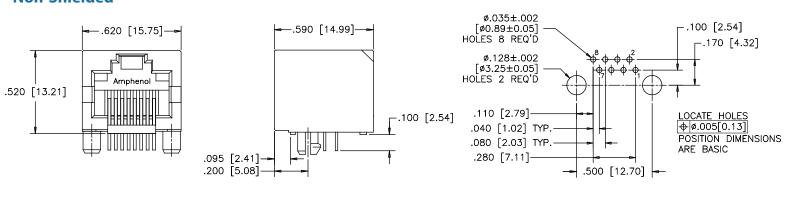


Single Port Non-Shielded

RJHSE-508X

RJHSE-548X

RJHSE-338X

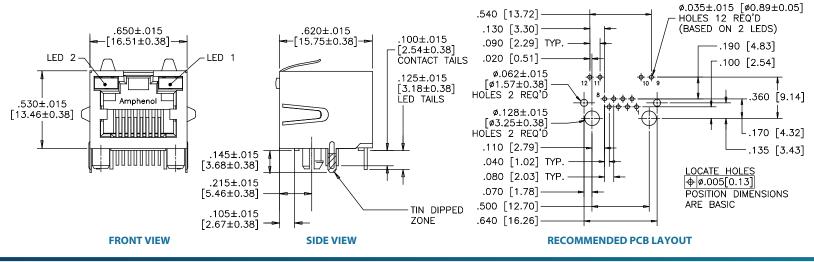


FRONT VIEW

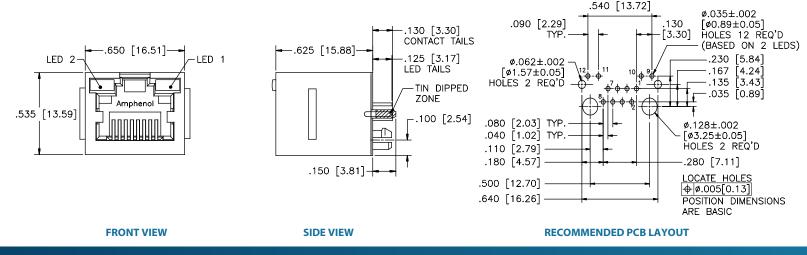
SIDE VIEW

RECOMMENDED PCB LAYOUT





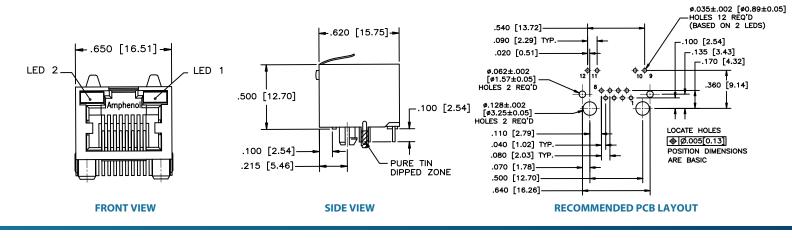
Vertical Mount





RJHSE-L38X

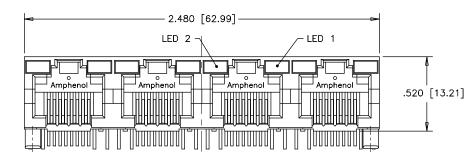




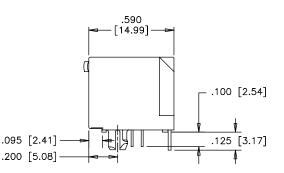
Multi Port

7

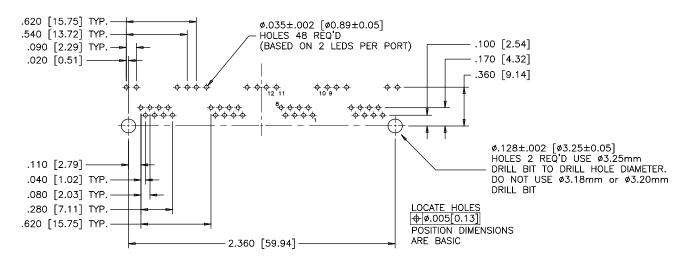
RJHSE-508X-04



FRONT VIEW

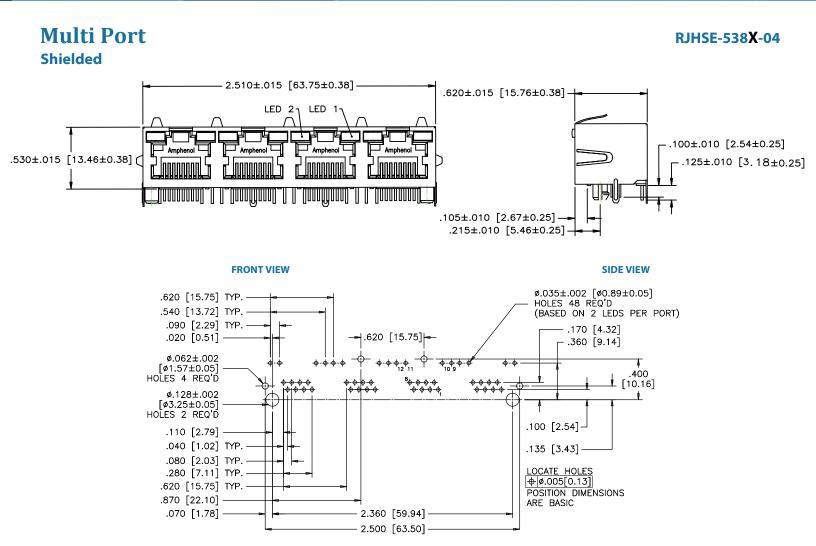






RECOMMENDED PCB LAYOUT





RECOMMENDED PCB LAYOUT

Notes



TAB UP, RJ45 & RJ11, STANDARD PROFILE

This family of EMI quiet modular jack connectors with integrated LEDs features the same data transfer capabilities as our existing series of LED-integrated modular jacks. This product is an economical solution ideal for LAN applications and is intended for use with low temperature soldering processes. Shielded and non-shielded versions are available with a variety of LED options. Also offered in both single and multi port configurations.

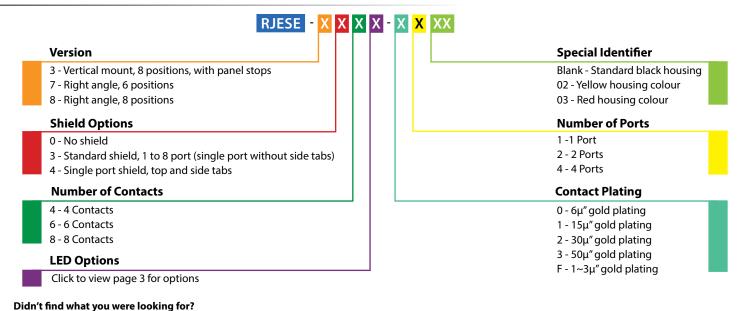


SPECIFICATIONS

Material			Electrical	
Insulator:		g thermoplastic;	Contact Resistance	20 mΩ max.
	Complies v	vith UL 94V-0; Black	Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
Contacts:	•	pronze hard temper with gold thickness 4", 15µ", 30µ", 50µ") over 50µ" min. nickel on	Current Rating:	1.5 Amps per contact
		ating area; $100\mu^{\prime\prime}$ min. matte tin plating on	Voltage Rating:	125 Volts AC
	soldering t	all	DWV:	1000 VAC, 60 Hz. 1 min.
Shield:	Stainless steel with tin dipped tails		LED Forward DC	20mA typical
LED:	Tin plating	on LED tails	Current:	
Mechanic	al		LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 2mA (for bicolours)
Insertion Fo	rce:	5 lbs max.	LED Reverse Voltage:	5 Volts min.
Pull Retentio	on Force:	20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours)
Durability:		750 mating & unmating cycles		0.5 mcd min. at 2mA (for bicolours)
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA
Operating Temperature:		-55°C to + 85°C		Red: 625 \pm 5 nm measured at 20mA

ORDERING INFORMATION

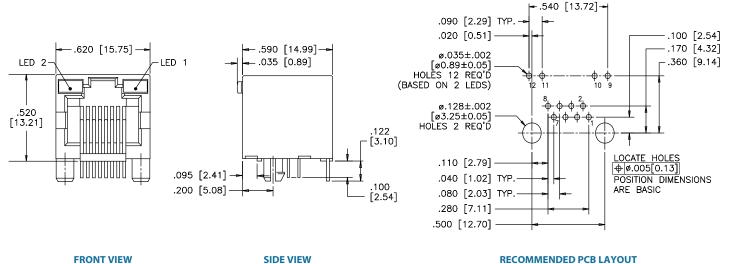
9



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RJESE TAB UP, RI45 & RI11, STANDARD PROFILE

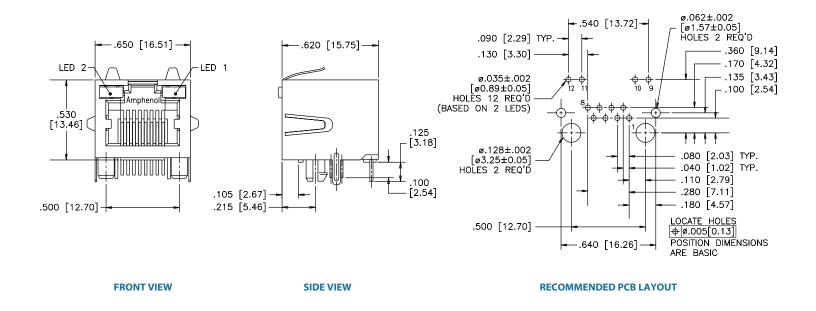
Single Port Non-Shielded



FRONT VIEW

Shielded

RJESE-848X-X1



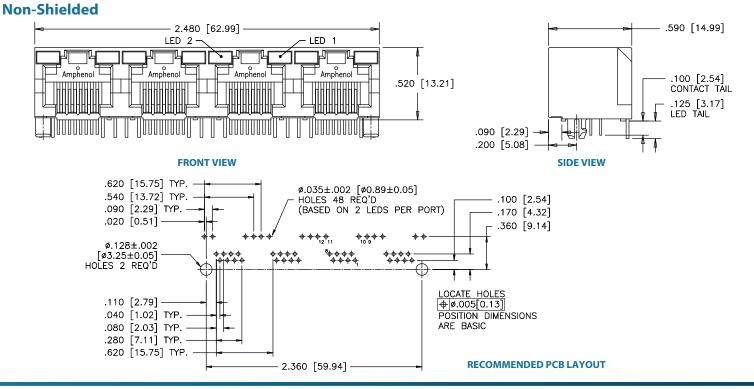
RJESE-808X-X1

TAB UP, RJ45 & RJ11, STANDARD PROFILE

RJESE-808X-X4

RJESE-838X-X4

Multi Port



Shielded

2.510 [63.75] .620 [15.75] -LED 2 IED 1 Amphenol Amphenol ☐ Amphenol Amphenol .100 [2.54] .530 [13.46] .125 [3.18] ППП .105 [2.67] ŧ∦i .215 [5.46] PURF-TIN **FRONT VIEW SIDE VIEW** DIPPED ZONE Ø.035±.002 [Ø0.89±0.05] .620 [15.75] TYP. HOLES 48 REQ'D (BASED ON 2 LEDS PER PORT) .540 [13.72] TYP. .090 [2.29] TYP. .620 .170 [4.32] .020 [0.51] [15.75 .360 [9.14] ø.062±.002 φ - 4 [ø1.57±0.05] .400 [10.16] HOLES 4 REQ'D + + + + $\frac{1}{2}$.110 [2.79] LOCATE HOLES .100 [2.54] **♦**ø.005[0.13] .040 [1.02] TYP. POSITION DIMENSIONS .135 [3.43] .080 [2.03] TYP. ARE BASIC .280 [7.11] TYP. ø.128±.002 [ø3.25±0.05] .620 [15.75] TYP. HOLES 2 REQ'D .870 [22.10] .070 [1.78] 2.360 [59.94] **RECOMMENDED PCB LAYOUT** 2.500 [63.50]



TAB UP, SLIM PROFILE

RJE29 series is designed to meet a wide variety of applications. Available in multiple positions and contacts to support basic telecom and Ethernet protocols. Shielding is available for increased EMI performance.

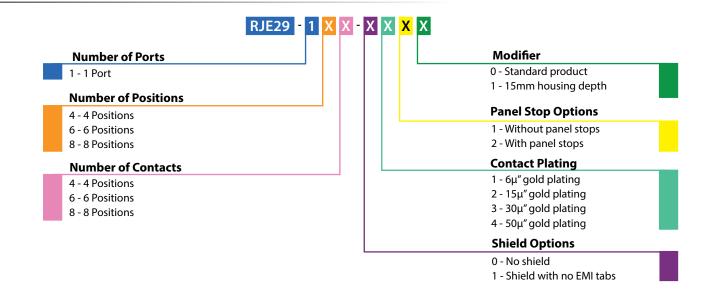
SPECIFICATIONS

Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 1 5μ , 3 0μ , 5 0μ) over 5 0μ min. nickel on contact mating area; 10 0μ min. matte tin plating on soldering tail
Shield:	Stainless steel with tin dipped tails
LED:	Tin plating on LED tails

Mechanical	
Insertion Force:	4 contacts: 1.8 Kgf Max 6 contacts: 2.1 Kgf Max 8 contacts: 2.3 Kgf Max 10 contacts: 2.5Kgf Max
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles with 50u"
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	-40°C to + 85°C

Electrical	
Contact Resistance	40 mΩ max.
Insulation resistance:	500 M Ω min. at 100V DC
Current Rating:	1.5 Amps
Voltage Rating:	150 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.

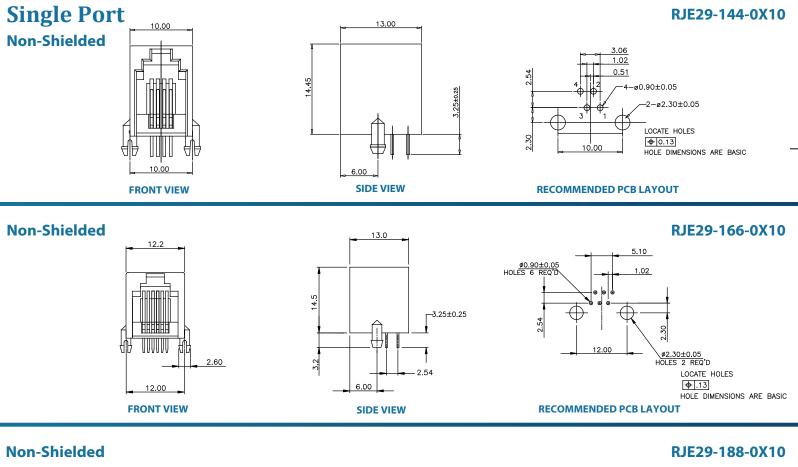
ORDERING INFORMATION



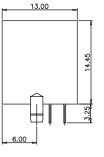
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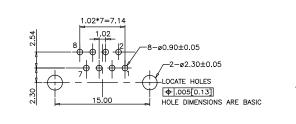




FRONT VIEW

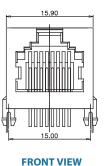


SIDE VIEW



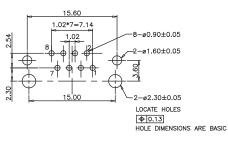
RECOMMENDED PCB LAYOUT

Shielded



SIDE VIEW

RJE29-188-1X10



RECOMMENDED PCB LAYOUT

TAB UP, SINGLE PORT, LOW PROFILE, WITH LEDs

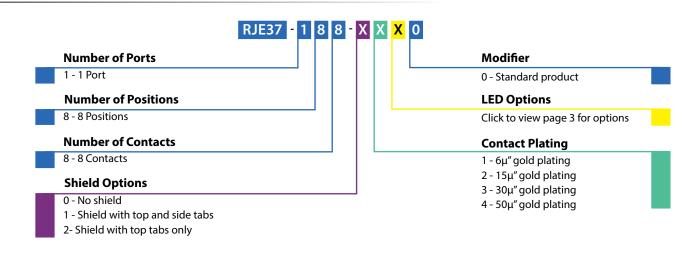
Single port through-hole (THT) series with multiple shield and LED options. Similar to our single port RJHSE series, but with a slightly lower profile and longer body. Inverted latch orientation for easy mating with industry standard plugs.

SPECIFICATIONS

Material		
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black	
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on soldering tail	
Shield:	Stainless ste	el with tin dipped tails
LED:	Tin plating o	on LED tails
Mechanical		
Insertion For	ce:	5 lbs max.
Pull Retentio	n Force:	20 lbs min.
Durability:		750 mating & unmating cycles
Recommende Soldering Ter		Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:		-55°C to + 85°C
*Note: Connectors without LEDs are suitable for IR Reflow		

20 mΩ max.
500 $M\Omega$ min. at 500V DC for 2 mins max.
1.5 Amps per contact
125 Volts AC
1000 VAC, 60 Hz. 1 min.
20mA typical
2.6 Volts max. at 2mA
5 Volts min.
0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
Yellow: 585 \pm 7 nm measured at 20mA Green: 568 \pm 6 nm measured at 20mA Red: 640 \pm 5 nm measured at 20mA

ORDERING INFORMATION



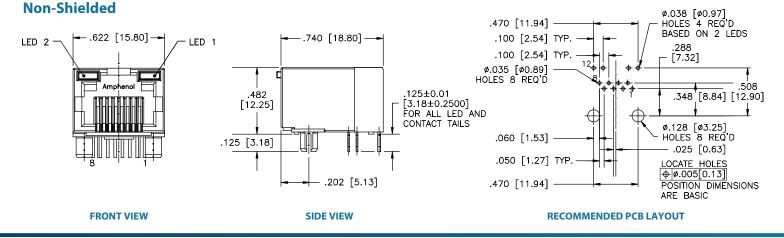
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RJE37 TAB UP, SINGLE PORT, LOW PROFILE, WITH LEDS

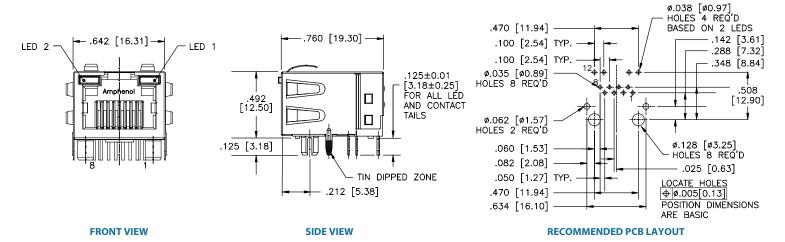
RJE37-188-0XX0





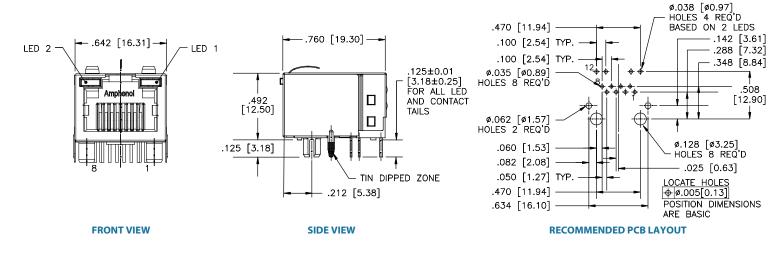
Shielded - With Full Tabs

RJE37-188-1XX0









TAB UP, NARROW, TWO AND EIGHT PORT

Single and eight port through-hole (THT) series with multiple shield and LED options. Similar to the RJHSE series, but with a narrower profile. This series is ideal for programs that need multiple connectors, but have limited PCB space.

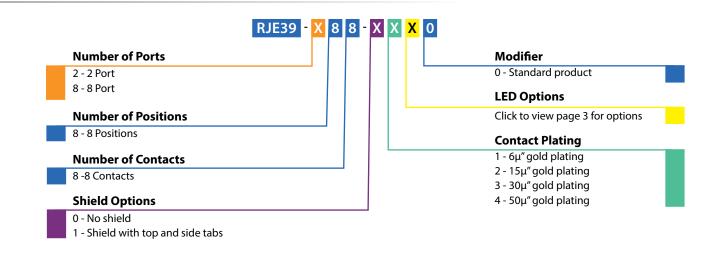
SPECIFICATIONS

Material		
Insulator:	5 1	thermoplastic; ith UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on soldering tail	
Shield:	Stainless ste	eel with tin dipped tails
LED:	Tin plating	on LED tails
Mechanica	ıl	
Insertion For	ce:	5 lbs max.
Pull Retentio	n Force:	20 lbs min.
Durability:		750 mating & unmating cycles
Recommende Soldering Ter		Wave soldering peaked at 260°C for 5 secs max.
Operating Ter	mperature:	-55°C to + 85°C
*Note: Connectors without LEDs are suitable for IR Reflow		

Electrical

Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.
LED Forward DC Current:	20mA typical
LED Forward Voltage:	2.6 Volts max. at 2mA (for single colour)
LED Reverse Voltage:	5 Volts min.
LED Light Intensity:	4.5 to 6.0 mcd min. at 20mA (for single colours)
LED Wave Length:	Yellow: 588 \pm 7 nm measured at 20mA Green: 570 \pm 6 nm measured at 20mA Red: 628 \pm 5 nm measured at 20mA

ORDERING INFORMATION

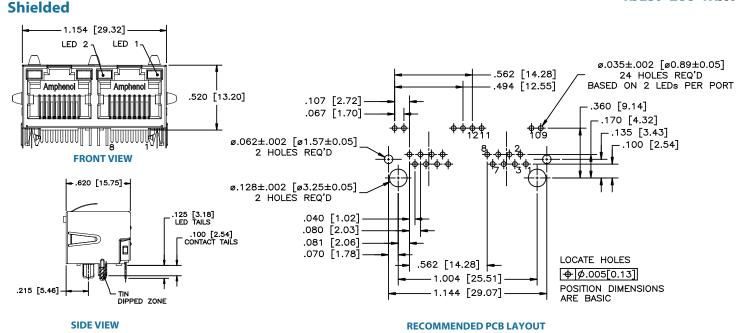


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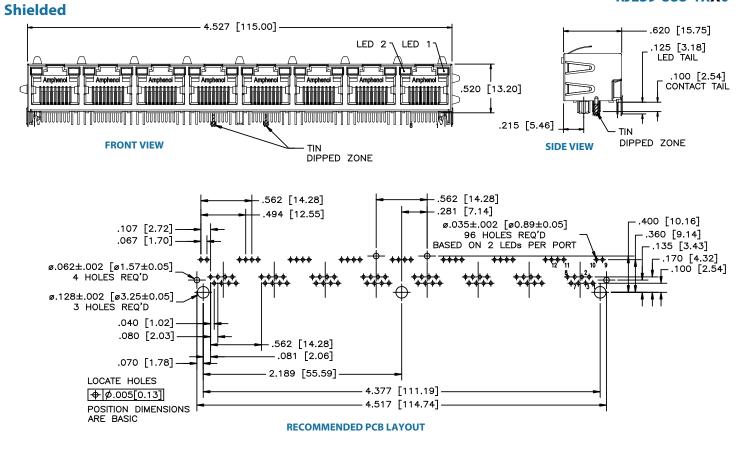
RJE39-288-1XX0



Eight Port

Two Port

RJE39-888-1XX0





TAB UP, RJ11 (SIX POSITION)

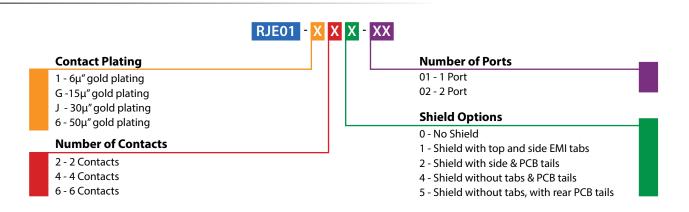
The RJE01 series of 6-position jacks are designed for superior EMI performance. The inverted connector provides shorter leads, eliminating the EMI antenna effect of the standard connector footprint. Typical performance improvement over their standard connector counterparts is 5-10 dB over the frequency range.

SPECIFICATIONS

Material		
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black	
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on soldering tail	
Shield:	Stainless steel with tin dipped tails	
Electrical		
Electrical Contact Resista	ance	20 mΩ max.
		20 m Ω max. 500 M Ω min. at 500V DC for 2 mins max.
Contact Resista	stance:	
Contact Resista Insulation resis	stance: :	500 M Ω min. at 500V DC for 2 mins max.

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	-55°C to + 85°C
UL File #:	E135615
CSA File #:	LR685398

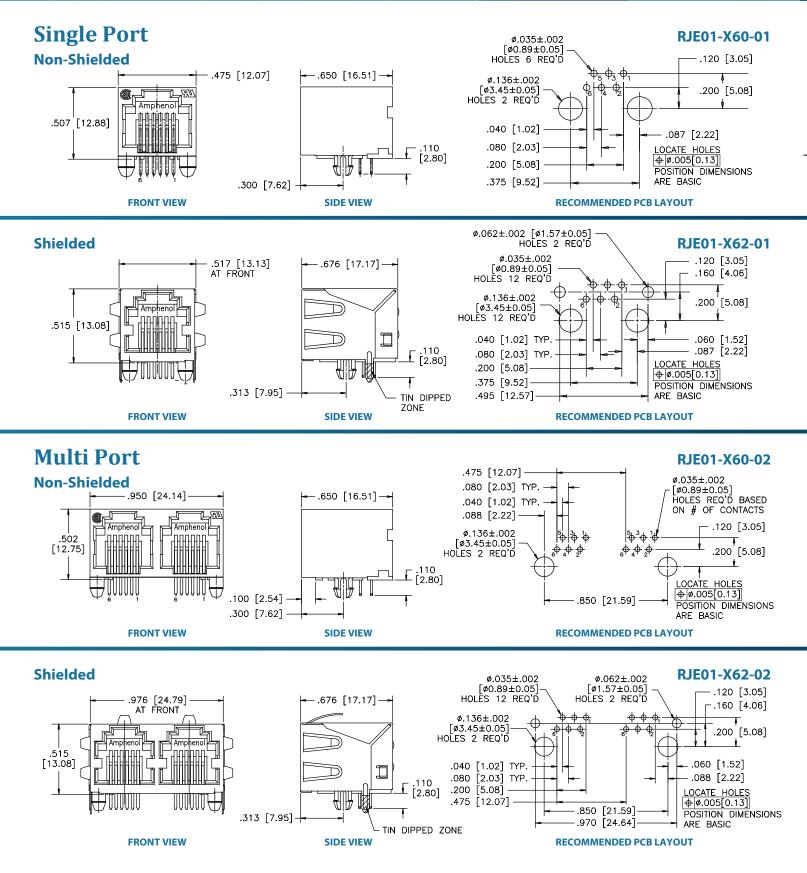
ORDERING INFORMATION



Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.





TAB DOWN, 1, 2 AND 4 PORT WITH LEDs

The RJSBE series of modular jacks supports Ethernet Protocols. Shielding is available with or without a ferrite filter for increased EMI performance and LEDs for link activity and network speed verification.

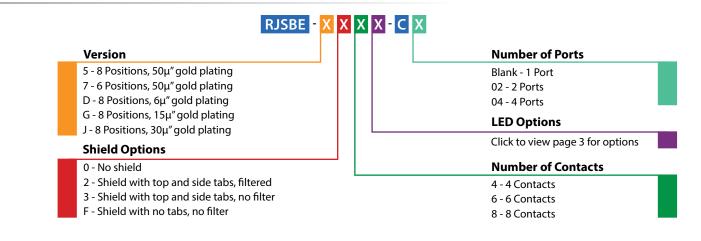
SPECIFICATIONS

Material		
Insulator:		thermoplastic; ith UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on soldering tail	
Shield:	Copper allo	y; nickel plated with tin dipped tails
LED:	Tin plating o	on LED tails
Mechanical		
Insertion For	ce:	5 lbs max.
Pull Retentio	n Force:	20 lbs min.
Durability:		750 mating & unmating cycles
Recommend Soldering Te		Wave soldering peaked at 260°C for 5 secs max.
Operating Te	mperature:	-55°C to + 85°C
UL File #:		E135615
CSA File #:		LR685398

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.
LED Forward DC Current:	20mA typical
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 2mA (for bicolours)
LED Reverse Voltage:	5 Volts min.
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA

Note* Connectors without LEDs are suitable for IR Reflow

ORDERING INFORMATION



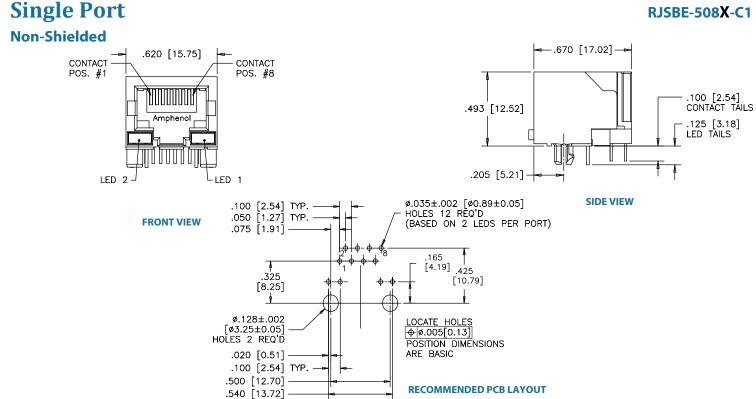
Didn't find what you were looking for?

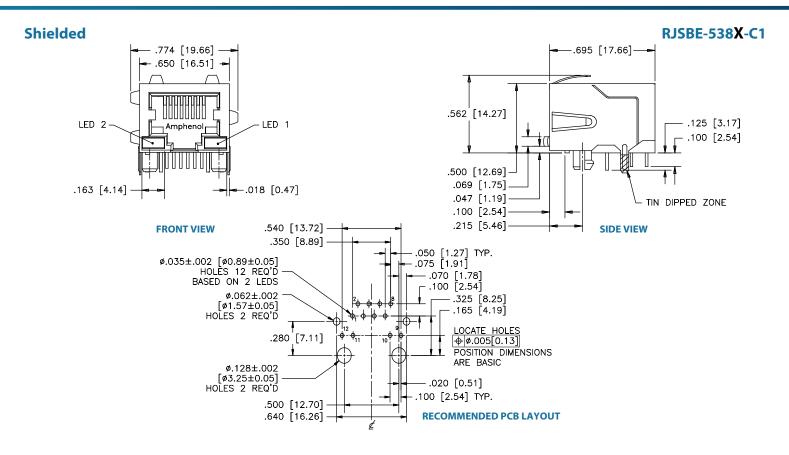
Please contact sales@amphenolcanada.com and let us know what you need.



RJSBE TAB DOWN, 1, 2 AND 4 PORT WITH LEDs

RJSBE-508X-C1



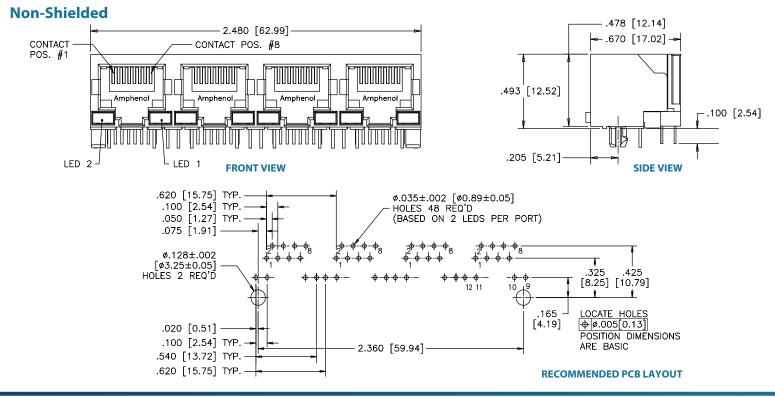


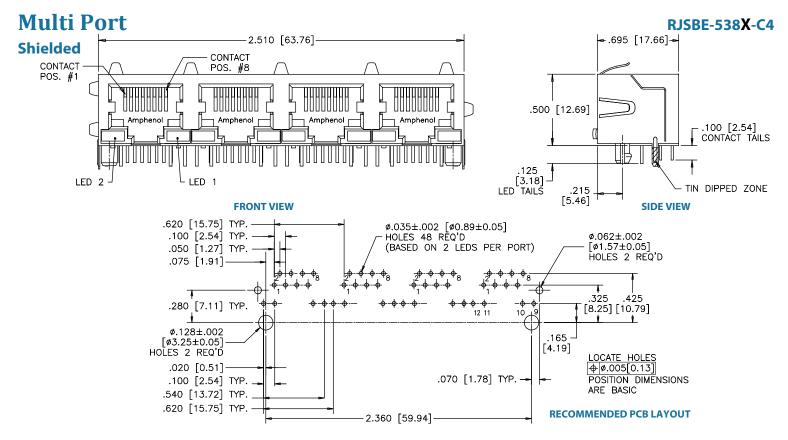
TAB DOWN, 1, 2 AND 4 PORT WITH LEDs

RJSBE

Multi Port

RJSBE-508X-C4







TAB DOWN, FILTERED AND SHIELDED

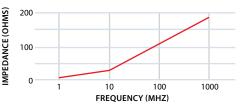
The FRJAE series of shielded and filtered modular jacks offer low cost and effective EMC control within standard RJ11 & RJ45 connector footprints. EMC control is offered by a completely shielded connector and/or with the use of a high resistivity, high impedance ferrite filter. No board layout changes are required for its use. Simply replace the standard non-filtered connector for superior EMC performance.



SPECIFICATIONS

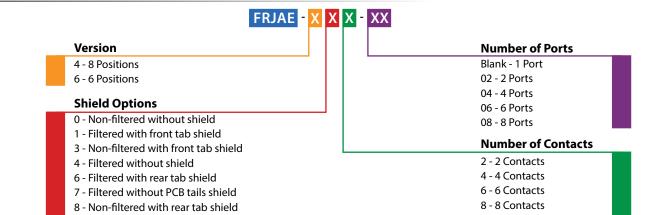
Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on soldering tail
Shield:	Copper alloy; nickel plated with tin dipped tails
Filter:	High impedance, high resistivity ferrite filter

IMPEDANCE CHARACTERISTICS



Electrical Contact Resistance $20 \text{ m}\Omega \text{ max}.$ Insulation resistance: 500 MΩ min. at 500V DC for 2 mins max. **Current Rating:** 1.5 Amps per contact **Voltage Rating:** 125 Volts AC DWV: 1000 VAC, 60 Hz. 1 min. **Mechanical Insertion Force:** 5 lbs max. **Pull Retention Force:** 20 lbs min. **Durability:** 750 mating & unmating cycles Recommended Wave soldering peaked at 260°C for 5 secs max. Soldering Temperature: -55°C to + 85°C **Operating Temperature:** UL File #: E135615 CSA File #: I R68598

ORDERING INFORMATION



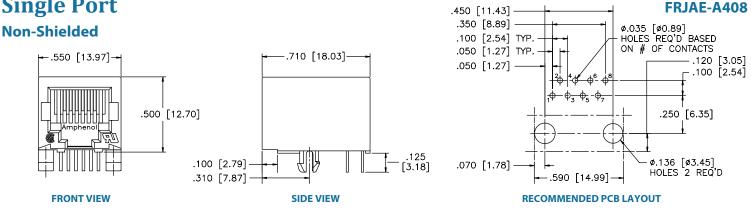
Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

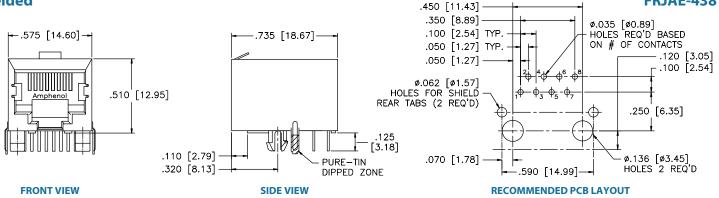
TAB DOWN, FILTERED AND SHIELDED

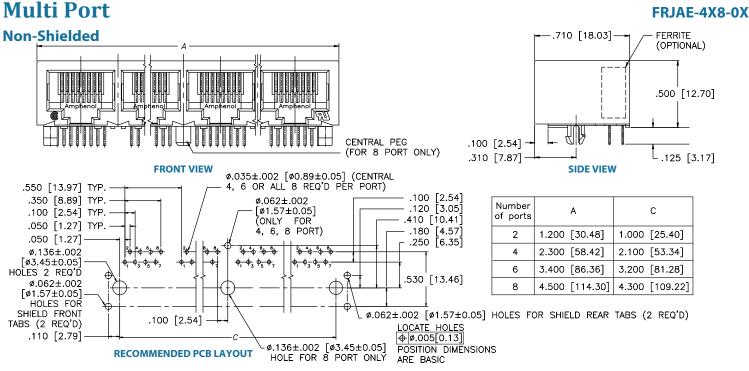
Single Port

FRJAE



Shielded





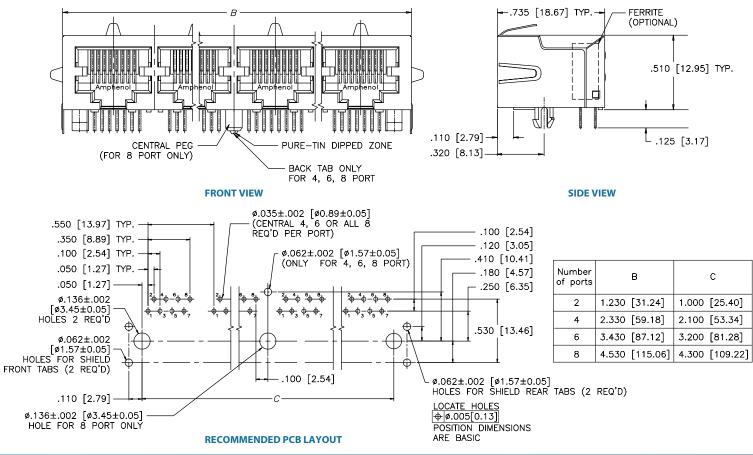
FRJAE-438



Multi Port

FRJAE-418-0X





Notes

TAB DOWN, SINGLE PORT, HIGH PROFILE

RJE02 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications options within the RJE02 family include options with and without a panel stops, and RJ11 & RJ45 configurations.

SPECIFICATIONS

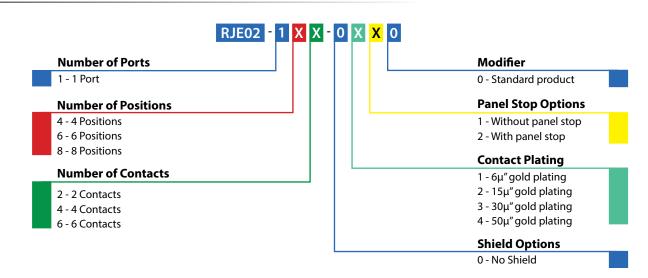
Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on soldering tail
Shield:	Copper alloy; nickel plated with tin dipped tail

MechanicalInsertion Force:5 lbs max.Pull Retention Force:20 lbs min.Durability:750 mating & unmating cyclesRecommended
Soldering Temperature:Wave soldering peaked at 260°C for 5
secs max.Operating Temperature:-40°C to + 85°C

*Note: Connectors with high temp. material are suitable for IR Reflow

ElectricalContact Resistance20 mΩ max.Insulation resistance:500 MΩ min. at 500V DC for 2 mins max.Current Rating:1.5 Amps per contactVoltage Rating:125 Volts ACDWV:1500 VAC, 60 Hz. 1 min.

ORDERING INFORMATION



Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

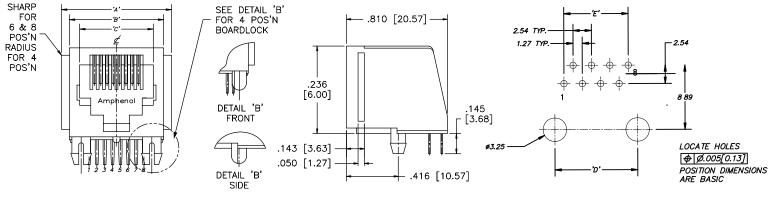




RJE02-1XX-0X20

Single Port

Non-Shielded



FRONT VIEW

SIDE VIEW

RECOMMENDED PCB LAYOUT

Part #	No. of	No. of			Dimensior	IS	
Furt #	Positions	Contacts	A	В	С	D	E
RJE02-142-0X20	4	2	.540 [13.72]	.440 [11.18]	.309 [7.85]	.300 [7.62]	.050 [1.27]
RJE02-144-0X20	4	4	.540 [13.72]	.440 [11.18]	.309 [7.85]	.300 [7.62]	.150 [3.81]
RJE02-162-0X20	6	2	.620 [15.75]	.520 [13.21]	.389 [9.88]	.400 [10.16]	.050 [1.27]
RJE02-164-0X20	6	4	.620 [15.75]	.520 [13.21]	.389 [9.88]	.400 [10.16]	.150 [3.81]
RJE02-166-0X20	6	6	.620 [15.75]	.520 [13.21]	.389 [9.88]	.400 [10.16]	.150 [3.81]
RJE02-188-0X20	8	8	.700 [17.78]	.600 [15.24]	.469 [11.91]	.450 [11.43]	.350 [8.89]

Notes

TAB DOWN, SINGLE PORT, LOW PROFILE

RE03 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE03 family include shielded and non-shielded, and RJ11 & RJ45 configurations.

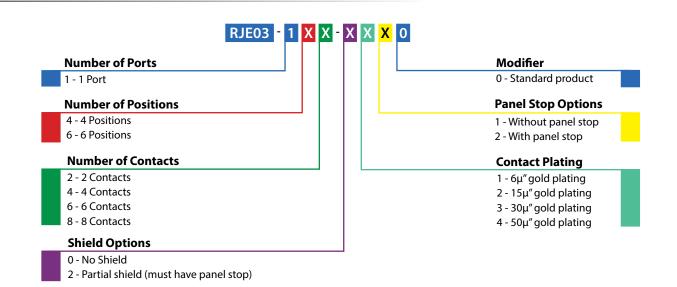
SPECIFICATIONS

Material				Mechanical
Insulator:	5	temp. thermoplastic; plies with UL 94V-0; Black		Insertion Force:
~	-			Pull Retention Force:
		ohor bronze hard temper with gold thickness ns (6μ", 15μ", 30μ", 50μ") over 50μ" min. nickel on		Durability:
	contact solderin	mating area; 100µ″ min. matte tin plating on g tail		Recommended Soldering Temperature:
Shield:	Copper	alloy; nickel plated with tin dipped tail		Operating Temperature:
Electrical				*Note: Connectors with hig
Contact Resist	ance	20 mΩ max.		
Insulation resi	stance:	500 $M\Omega$ min. at 500V DC for 2 mins max.		
Current Rating	j:	1.5 Amps per contact		
Voltage Rating	j:	125 Volts AC		
DWV:		1000 VAC, 60 Hz. 1 min.		

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	- 40°C to + 85°C
× · · · · · · · · · · · · · · · · · · ·	

*Note: Connectors with high temp. material are suitable for IR Reflow

ORDERING INFORMATION



Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.



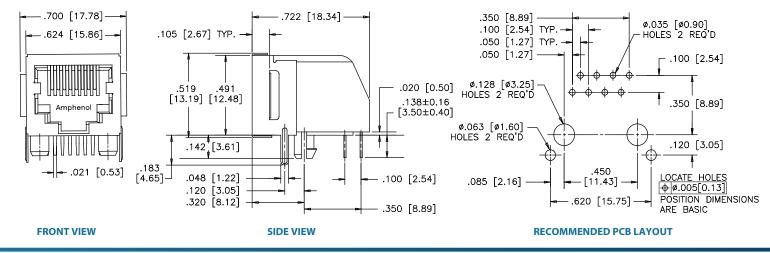
RJE03-188-0X10

Non-Shielded .100 [2.54] TYP. .600±.015 .710±.015 ø.035±.002 [Ø0.89±0.05] HOLES 8 REQ'D – [15.24±0.38] – [18.03±0.38] .050 [1.27] TYP. ¢ .050 [1.27] ϕ \oplus 4 .100 [2.54] ø.128±.002 \$ Φ Φ 0 495±.015 $.150 \pm .012$ [ø3.25±0.05] HOLES 2 REQ'D .350 [12.57±0.38] [3.81±0.30] [8.89] Amphenol LOCATE HOLES + Ø.005[0.13] ΠΡ $.310 \pm .010$ **⊦.450** [11.43] **-**POSITION DIMENSIONS [7.87±0.25] ARE BASIC **FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT**

Shielded with Panel Stop

Single Port

RJE03-188-2X20



Notes



TAB DOWN, ULTRA LOW PROFILE

RJE05 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE05 family include shielded or non-shielded, and RJ11 & RJ45 configurations.

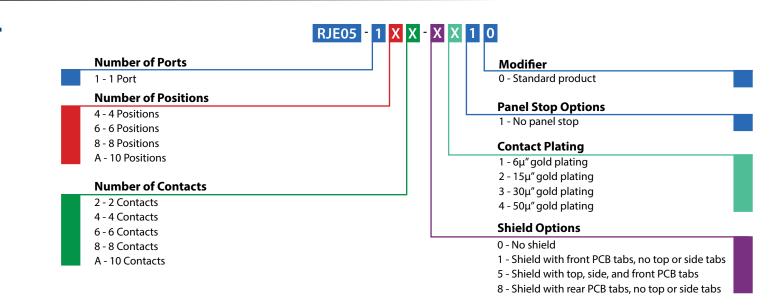
SPECIFICATIONS

Material		
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black	
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on soldering tail	
Shield:	Copper alloy; nickel plated with tin dipped tail	
Electrical		
Contact Resist	tance	20 mΩ max.
Insulation res	istance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating	g:	1.5 Amps per contact
Voltage Ratin	a.	125 Volts AC
-	y.	125 Volt3/10

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	- 40°C to + 85°C
UL File #:	E135615

*Note: Connectors with high temp. material are suitable for IR Reflow

ORDERING INFORMATION



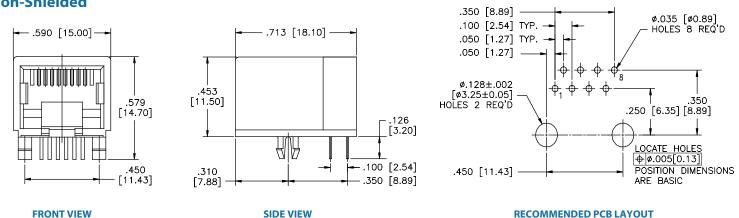
Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

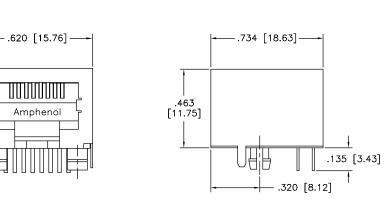


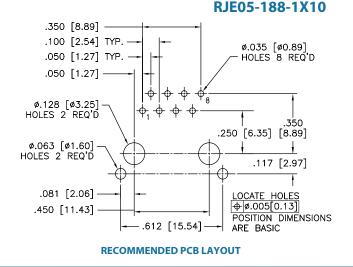
RJE05-188-0X10

Single Port



Shielded with Front PCB Tabs



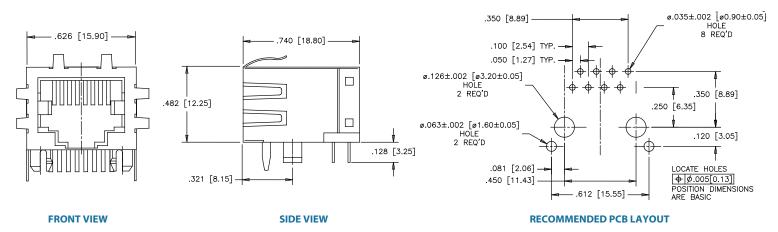


FRONT VIEW

SIDE VIEW







TAB DOWN, STANDARD PROFILE

RJE09

TAB DOWN, STANDARD PROFILE

RJE09 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options with the RJE09 family include shielded & non-shielded, and RJ11 & RJ45.

SPECIFICATIONS

Material		
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black	
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin or gold flash plating on soldering tail	
Shield:	Copper alloy; nickel plated allover	
Electrical		
Contact Resist	anco	
	ance	20 mΩ max.
Insulation resi		20 mΩ max. 500 MΩ min. at 500V DC for 2 mins max.
Insulation resis	stance:	
	stance:	500 M Ω min. at 500V DC for 2 mins max.

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 to 8 secs max.
Operating Temperature:	- 40°C to + 70°C
UL File #:	E136228

ORDERING INFORMATION

Number of Ports	Modifier
1 -1 Port	0 - Standard product
2 - 2 Ports	
4 - 4 Ports	Panel Stop Options
6 - 6 Ports	1 - No panel stop
8 - 8 Ports	2 - With panel stop
Number of Positions	Contact Plating
6 - 6 Positions	1 - 6μ" gold plating
8 - 8 Positions	2 - 15µ" gold plating
A - 10 Positions	3 - 30µ" gold plating
	4 - 50μ" gold plating
Number of Contacts	Chield Ontione
4 - 4 Contacts	Shield Options
6 - 6 Contacts	0 - No shield
8 - 8 Contacts	1 - Shield with rear PCB tabs, no top or side ta

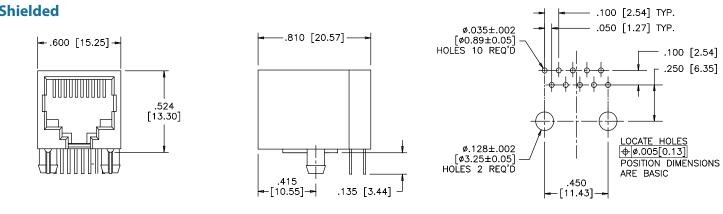
Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.



Single Port Non-Shielded

RJE09-1AA-0X10

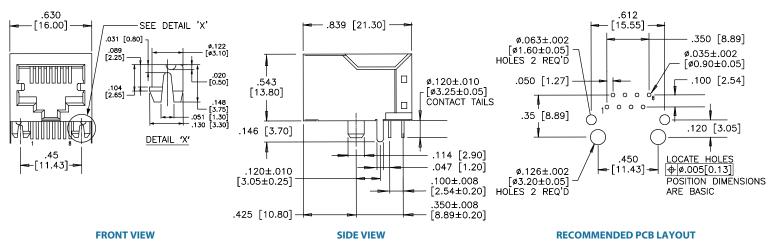


FRONT VIEW

SIDE VIEW



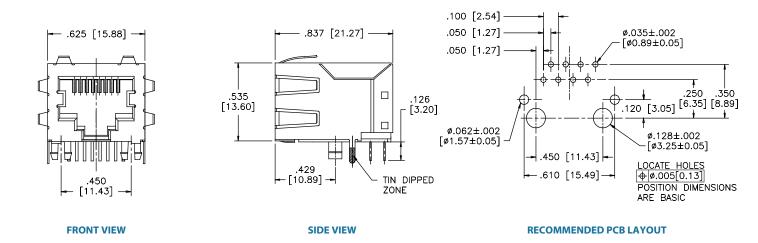
RECOMMENDED PCB LAYOUT



Shielded

Shielded

RJE09-188-5X10



RJE09 TAB DOWN, STANDARD PROFILE

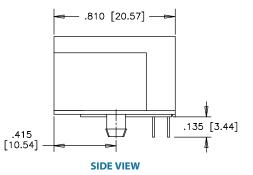
Multi Port

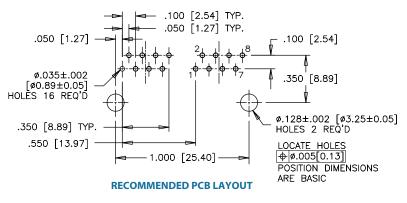
Non-Shielded

RJE09-288-0X10

FRONT VIEW

- 1.200 [30.48]



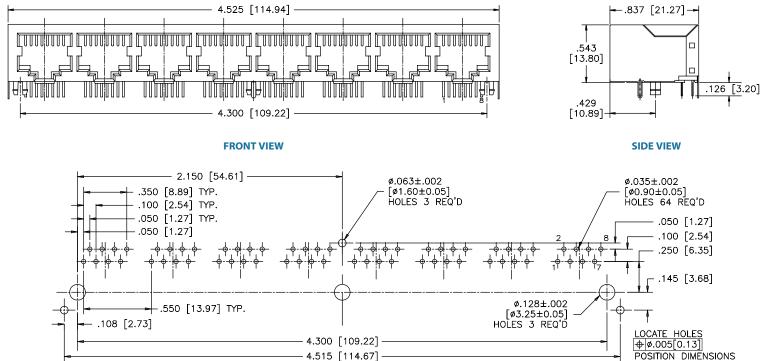


.550 [13.97]

.535 [13.59]

Shielded

RJE09-888-1X10



POSITION DIMENSIONS ARE BASIC

RECOMMENDED PCB LAYOUT



TAB DOWN, RECESSED, LOW PROFILE

RJULE is a series of single port RJ45 modular jacks designed for slim profile applications. With a profile height of less than 10 millimeters, this connector is perfect where vertical space is limited. Standard and rear mount shield options for superior EMI performance makes this part ideal for LAN and router applications.

SPECIFICATIONS

Material				Mech
Housing:	Flammability rating UL94-0: RoSH compliant			Inserti
Contacts:	Phosphor bronze			Pull Re
Plating:	•	ted on mating surfaces over $50\mu''$ (1.27		Durabi
i lating.	microns) min. nickel under plate; 100μ" (2.54 microns) tte tin on contact tails		Recom Solder
Shield:	Copper alloy; nickel plated Or		Operat	
F leated col				UL File
Electrical				*Note: 9
Contact Resista	ance	20 mΩ max.		Note: 2
Insulation resis	stance:	500 M Ω min. at 500V DC for 2 mins max.		
Current Rating	:	1.5 Amps per contact		
Voltage Rating	:	125 Volts AC		
DWV:		1000 VAC, 60 Hz. 1 min.		

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	-55°C to + 85°C
UL File #:	E135615

*Note: Suitable for IR Reflow

ORDERING INFORMATION

Number of Positions	Packaging
4 - 8 Positions	Blank - Tray
	T - Tape & Reel
Contact Plating 0 - 1~3μ" gold plating	Number of Ports
$1 - 15\mu''$ gold plating	01- 1 Port
2 - 30µ" gold plating	Shield Options
3 - 50μ″ gold plating	0 - No shield
Housing Options	1 - Shield with top, side, and rear PCB tabs
1 - Black	2 - Shield with flared side tabs
2 - Yellow	3 - Shield with rear PCB, no top or side tabs
3 - Red	
Number of Contacts	
4 - 4 Contacts	1

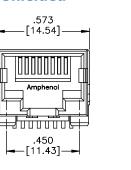
Didn't find what you were looking for?

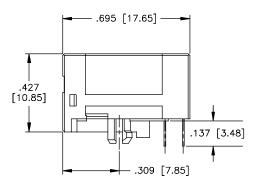
Please contact sales@amphenolcanada.com and let us know what you need.

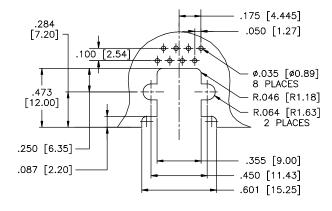
RJULE TAB DOWN, RECESSED, LOW PROFILE

Single Port

RJULE-4X180-01





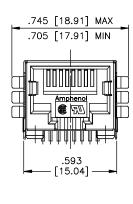


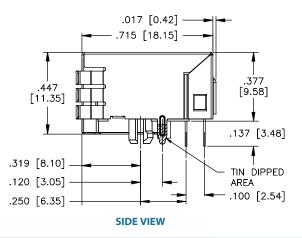
RECOMMENDED PCB LAYOUT

FRONT VIEW

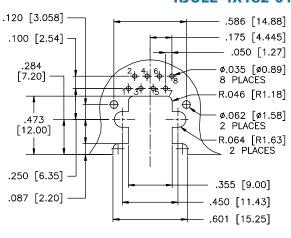
SIDE VIEW

Shielded with Side Ground Tabs





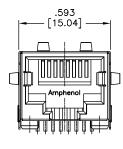
RJULE-4X182-01



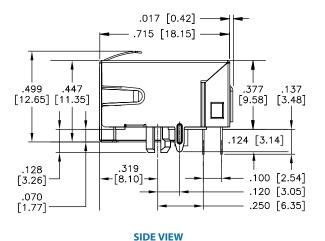
RECOMMENDED PCB LAYOUT

Standard Shield

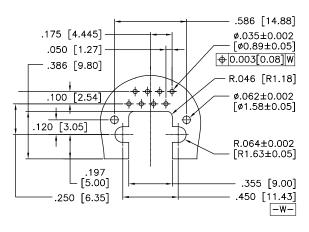
FRONT VIEW



FRONT VIEW



RJULE-4X181-01



RECOMMENDED PCB LAYOUT

Amphenol Commercial Products - Amphenol Canada Corp. | Telephone: (416) 291-4401 | Fax: (416) 754-8668 | Email: sales@amphenolcanada.com All specifications are subject to change without notice. Catalogue is updated regularly. Please refer to <u>www.amphenolcanada.com</u> for the most recent edition.



TAB DOWN, SINGLE PORT, LOW PROFILE

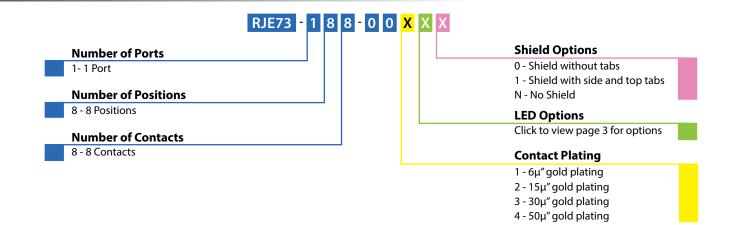
The RJE73 modular jack is a low profile RJ45 with LEDs and superior EMI shielding with a small footprint for space sensitive designs. This connector features built-in LEDs that provide link activity and network verification. This product is ideal for LAN applications such as adapter cards and routers.



SPECIFICATIONS

Material			Electrical	
Insulator:			Contact Resistance	20 mΩ max.
-	Complies with UL94-0; Black		Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
		ronze hard temper with gold plating r 50μ" min. nickel on contact mating area;	Current Rating:	1.0 Amps per contact
	100µ″ min. r	matte tin plating on solder tails	Voltage Rating:	125 Volts AC
Shield: Stainless steel with tin dipped tails		DWV:	1000 VAC, 60 Hz. 1 min.	
LED:	Tin plating o	on LED tails	LED Forward DC Current:	20mA typical
Mechanic Insertion Fo		5 lbs max.	LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 2mA (for bicolours)
Pull Retentio	on Force:	20 lbs min.	LED Reverse Voltage:	5 Volts min.
Durability:		750 mating & unmating cycles	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours)
Recommend	led	Wave soldering peaked at 245°C for 8 to		0.5 mcd min. at 2mA (for bicolours)
Soldering Temperature:		10 secs max.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA
Operating To	emperature:	-55°C to + 85°C		Green: 565 ± 6 nm measured at 20mA
UL File #:		E135615		Red: 625 \pm 5 nm measured at 20mA

ORDERING INFORMATION



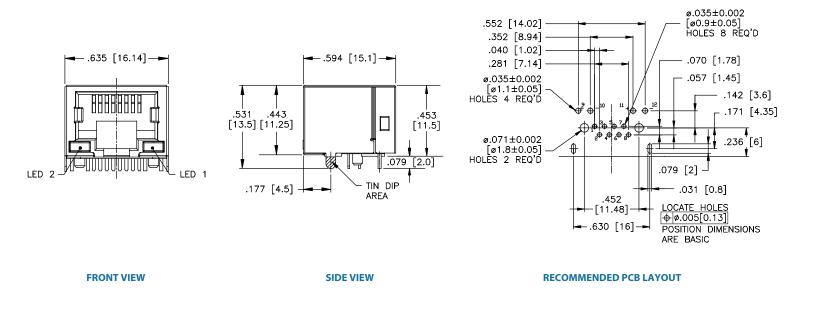
Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

RJE73 TAB DOWN, SINGLE PORT, LOW PROFILE, WITH LEDS

Single Port Shielded - No Top or Side Tabs

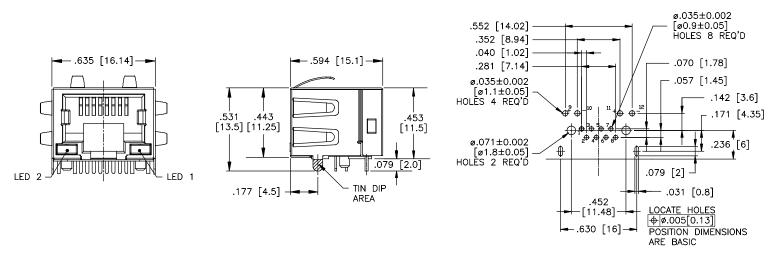
RJE73-188-00XX0



Shielded - With Top and Side Tabs

FRONT VIEW

RJE73-188-00XX1



SIDE VIEW

RECOMMENDED PCB LAYOUT

Mechanical Insertion Force: 5 lbs max.

insertion Force.	5 103 1187.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	IR Reflow peaked at 260°C for 5 to 10 secs max.
Operating Temperature:	-55°C to + 85°C
UL File #:	E135615
*Note: Light Pipes to be installed after soldering	

TAB UP, WITH LIGHT PIPES

The RJSSE series represents an expansion of Amphenol Canada's current RJHSE series connector. The RJSSE offers all the benefits of the RJHSE series in SMT with light pipes. Shielded and non-shielded versions are available with or without light pipes.

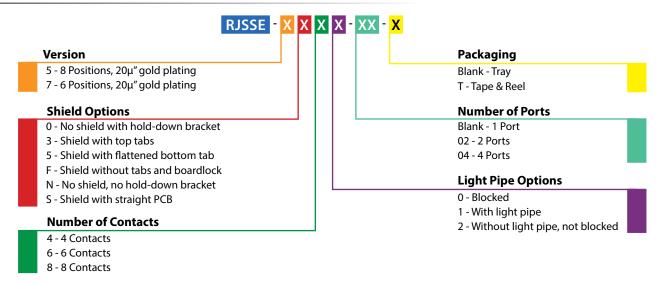
SPECIFICATIONS

Material		
Insulator:	High temp. thermoplastic; Complies with UL94-0; Black	
Contacts:Phosphor bronze hard temper with gold plating options over $50\mu''$ min. nickel on contact mating ar $100\mu''$ min. matte tin plating on solder tails		over $50\mu^{\prime\prime}$ min. nickel on contact mating area;
Shield: Copper a		alloy; nickel or matte tin plating
Light Pipe: Optical		polycarbonate; UL 94V-0
Electrical		
Contact Resista	ance	20 mΩ max.
Insulation resistance:		500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating	:	1.5 Amps per contact
Voltage Rating:		125 Volts AC

1500 VAC, 60 Hz. 1 min.

ORDERING INFORMATION

DWV:



Note: The light pipes are available to be purchased on their own. Part Number: RJSSE-2485-01

Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

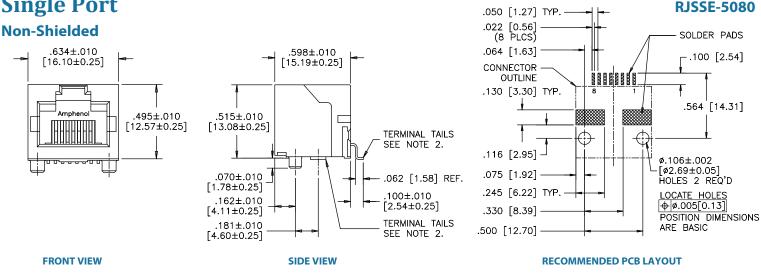




TAB UP, WITH LIGHT PIPES

RJSSE

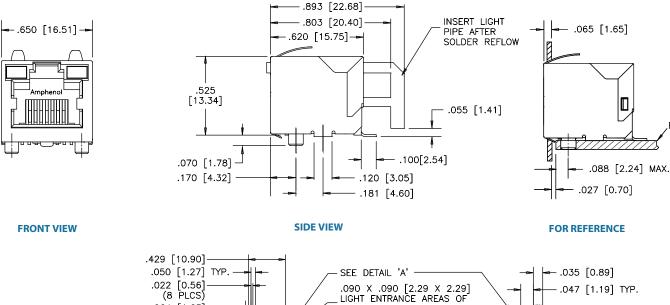
Single Port



Standard Shield - With Top & Side Ground Tabs

RJSSE-5381

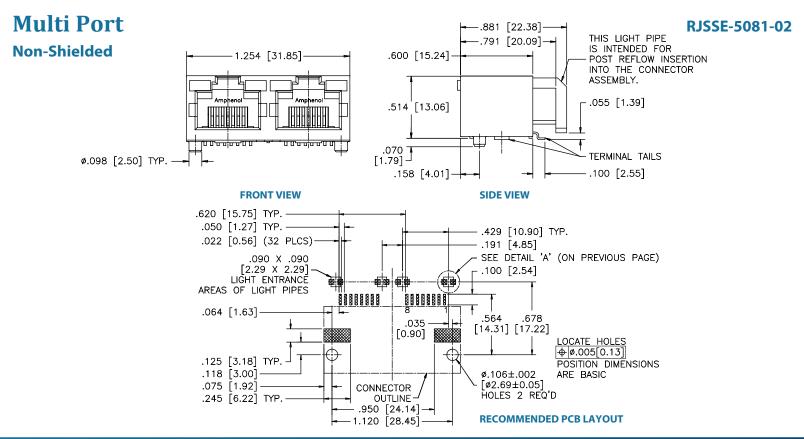
,PCB



.090 X .090 [2.29 X 2.29] LIGHT ENTRANCE AREAS OF LIGHT PIPES .047 [1.19] TYP. .064 [1.63] .035 [0.90] .100 [2.54] 鬫 ₩ CONNECTOR • .047. [1.19] TYP. OUTLINE 4 .678 .125 [3.18] .564 [17.22] TYP [14.31] DETAIL <u>'A</u>' (ENLARGED) SMT LED SOLDER PAG (SMT LED TO BE PROVIDED ¥ -⊕ ø.106±.002 [ø2.69±0.05] HOLES 2 REQ'D BY THE CUSTOMER) .118 [3.00] .075 [1.92] LOCATE HOLES .245 [6.22] TYP. ♦Ø.005[0.13] POSITION DIMENSIONS .330 [8.39 .500 [12.70] ARE BASIC

RECOMMENDED PCB LAYOUT





Multi Port

RJSSE-5381-02 THIS LIGHT PIPE IS Shielded -.893 [22.68]-INTENDED FOR POST .065 [1.65] REFLOW INSERTION 1.270 [32.26] .620 [15.75] INTO THE CONNECTOR Æ Æ ASSEMBLY Amphenol .055 [1.40] Amphenol ſ .525 [13.34] TERMINAL TAILS .088 [2.24] MAX. .060 -.100 [2.54] [1.51] .027 [0.70] **FRONT VIEW SIDE VIEW** FOR REFERENCE .620 [15.75] TYP. .050 [1.27] TYP. .429 [10.90] TYP. .022 [0.56] (32 PLCS) .191 [4.85] .090 X .090 [2.29 X 2.29] LIGHT ENTRANCE AREAS OF LIGHT PIPES _{-.100} [2.54] 68 68 .064 [1.63] .564 .035 [0.90] .678 [14.31] [17.22] .125 [3.18] TYP. LOCATE HOLES **♦**ø.005[0.13] ⊕ POSITION DIMENSIONS ARE BASIC .118 [3.00] ø.106±.002 .075 [1.92] [ø2.69±0.05] CONNECTOR -HOLES 2 REQ'D OUTLINE .245 [6.22] TYP -.950 [24.14]-**RECOMMENDED PCB LAYOUT** -1.120 [28.45]

TAB UP, STANDARD PROFILE, WITH LEDs

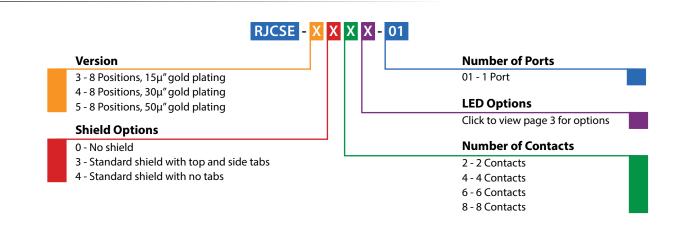
The RJCSE is a right angle surface mount connector. Shielding is available for increased EMI performance as well as built-in LEDs for link activity and network verification. This product is ideal for LAN applications such as adapter cards and routers.

SPECIFICATIONS

Material		
Insulator:	: High temp. thermoplastic; Complies with UL 94V-0; Black	
Contacts:Phosphor bronze hard temper with gold thickness options (6μ", 15μ", 30μ", 50μ") over 50μ" min. nickel contact mating area; 100μ" min. matte tin plating o soldering tail		", 15µ", 30µ", 50µ") over $50µ$ " min. nickel on ting area; 100µ" min. matte tin plating on
Shield: Stainless ste		eel with matte-tin plating
Mechanica	ıl	
Insertion Force:		5 lbs max.
Pull Retention Force:		20 lbs min.
Durability:		750 mating & unmating cycles
Recommended Soldering Temperature:		Suitable for IR Reflow at 260°C for 10 secs max.
Operating Ter	nperature:	- 55°C to + 85°C
UL File #:		E135615
CSA File #:		LR685398

Electrical		
Contact Resistance	20 mΩ max.	
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.	
Current Rating:	1.5 Amps per contact	
Voltage Rating:	125 Volts AC	
DWV: 1000 VAC, 60 Hz. 1 min.		
LED Forward DC Current:	20mA typical	
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 2mA (for bicolours)	
LED Reverse Voltage:	5 Volts min.	
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)	
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA	

ORDERING INFORMATION



Didn't find what you were looking for?

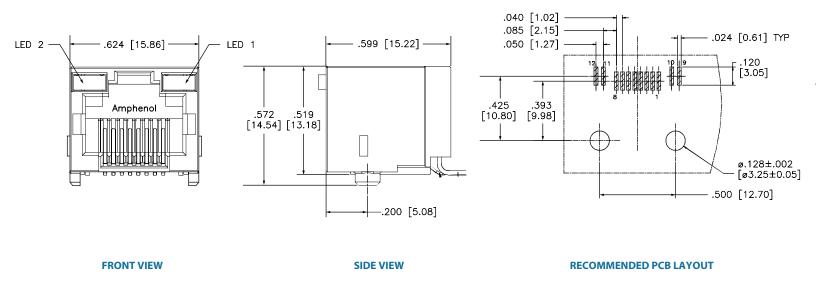
Please contact sales@amphenolcanada.com and let us know what you need.





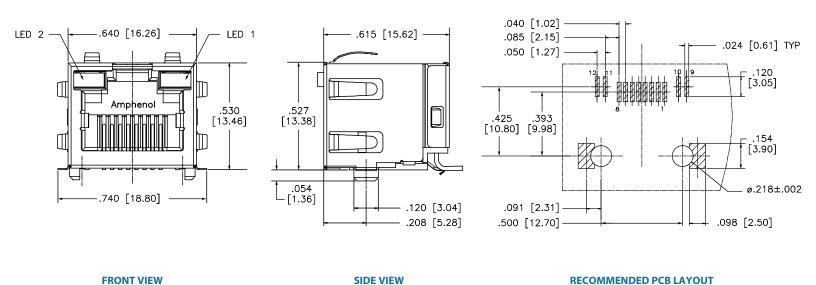
RJCSE-508X-01

Single Port Non-Shielded



Shielded

RJCSE-538X-01





TAB DOWN, ULTRA LOW PROFILE

The RJLSE series contains surface mount modular jacks with superior EMI performance that supports Ethernet Protocols. This low profile connector is built to meet your high volume RJ requirements. This series is a true pick and place compatible SMT connector and is available with different shielding, contacts, gold plating thickness, and color options. This connector is built with high temperature engineering thermoplastic and suitable for the IR Reflow solder process.



SPECIFICATIONS

Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 1 5μ , 3 0μ , 5 0μ) over 5 0μ min. nickel on contact mating area; Gold flash over palladium nickel also available; 10 0μ min. matte tin plating on soldering tail
Shield:	Copper alloy; nickel or matte tin plated

*Note: Other insulator colour c

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.

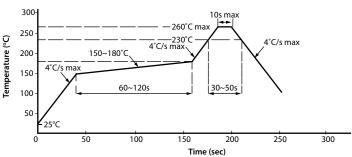
ORDERING INFORMATION

URDERING INFURMATION	
RJLSE - XXX	X X - 01 X
Version	Packaging
4 - 8 Positions	Blanks - Tray
6 - 6 Positions	T - Tape &Reel
Contact Plating	Number of Ports
0 - 1~3µ″ gold plating	01 - 1 Port
1 - 15μ" gold plating	Housing Ontions
2 - 30µ" gold plating	Housing Options
3 - 50µ" gold plating	1 - Black
Chield Ontions	2 - Yellow
Shield Options	3 - Red
0 - No shield with hold-down bracket 1 - Standard shield, SMT without PCB tabs	Number of Contacts
3 - Shield with PCB tabs	2 - 2 Contacts
5 Shick with CB tabs	4 - 4 Contacts
	6 - 6 Contacts
Didn't find what you were looking for?	8 - 8 Contacts
Please contact sales@amphenolcanada.com and let us know what you need.	 Click to Return to Table of Contents

ith UL 94V-0; Black		
ronze hard temper with gold thickness	Pull Retention Force:	20 lbs min.
", 15μ", 30μ", 50μ") over 50μ" min. nickel	Durability:	750 mating & unmating cycles
mating area; Gold flash over palladium available; 100µ" min. matte tin plating on ail	Recommended Soldering Temperature:	Lead free reflow soldering up to 260°C for 10 secs max. 3 reflow passes max.
	Operating Temperature:	- 55°C to + 85°C
y; nickel or matte tin plated	UL File #:	E135615
options available	CSA File #:	LR685398

Mechanical Insertion Force:

*Note to recommended reflow profile below

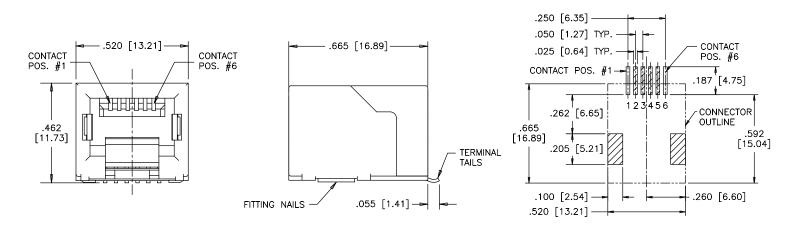


5 lbs max.



RJLSE-6X061-01

Single Port Non-Shielded



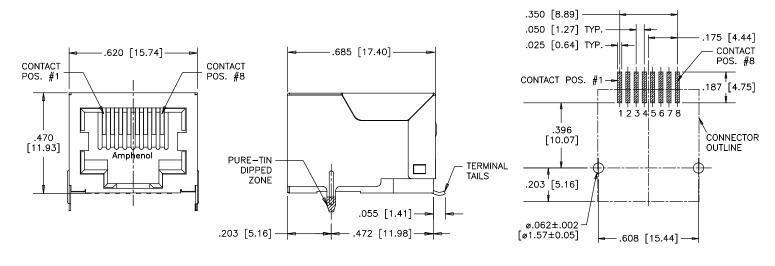
FRONT VIEW

RECOMMENDED PCB LAYOUT

SIDE VIEW

Shielded

RJLSE-4X381-01



FRONT VIEW

SIDE VIEW

RECOMMENDED PCB LAYOUT



TAB DOWN, SINGLE PORT

RJE07 products belong to a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the FRJAE series offer low cost and effective EMC control within standard RJ11 & RJ45 connector footprints. EMC control is offered by a completely shielded connector and/or with the use of a high resistivity, high impedance ferrite filter. No board layout changes are required for its use. Simply replace the standard non-filtered connector for superior EMC performance.



SPECIFICATIONS

Material		Mechanical	
Insulator:	High temp. thermoplastic;	Insertion Force:	5 lbs max.
.	Complies with UL 94V-0; Black	Pull Retention Force:	20 lbs min.
options (6µ", 15µ", 30µ", 50µ") over 50µ" mir	Phosphor bronze hard temper with gold thickness options (6µ", 15µ", 30µ", 50µ") over 50µ" min. nickel	Durability:	750 mating & unmating cycles
	on contact mating area; Gold flash over palladium nickel also available; 100µ" min. matte tin plating on	Recommended Soldering Temperature:	
Shield:	soldering tail Copper alloy; nickel or matte tin plated	Operating Temperature:	- 40°C to + 85°C

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.

ORDERING INFORMATION

Number of Ports	Modifier
1 - 1 Port	0 - Standard product
Number of Positions	Panel Stop Options
6 - 6 Positions	1 - Without panel stop
8 - 8 Positions	2 - With panel stop (must have for shiel
Number of Contacts	Contact Plating
4 - 4 Contacts	1 - 6μ" gold plating
6 - 6 Contacts	2 - 15µ" gold plating
8 - 8 Contacts	3 - 30µ″ gold plating
Shield Options	4 - 50μ" gold plating
0 - No shield	
2 - Through-hole shield	

Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.



RJE07-188-0X10

.050 [1.27] TYP.

LOCATE HOLES ⊕ Ø.005[0.13]

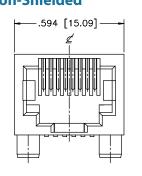
ARE BASIC

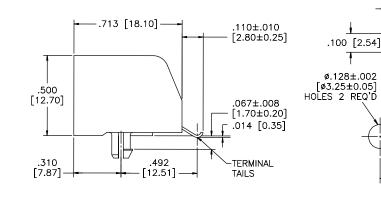
.050 .450 [1.27] [11.43]

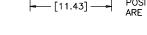
POSITION DIMENSIONS

RJE07-188-3X20

Single Port Non-Shielded







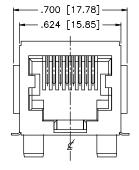
.450

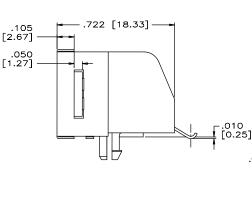
🗕 .030 [0.76] TYP.

RECOMMENDED PCB LAYOUT

Surface Mount Shield

FRONT VIEW



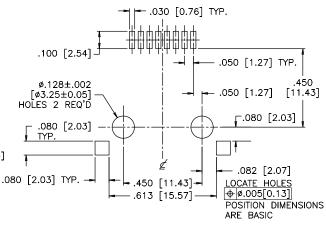


SIDE VIEW

.722 [18.34]

[2.67]

SIDE VIEW

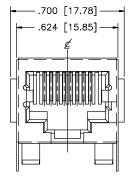


RECOMMENDED PCB LAYOUT

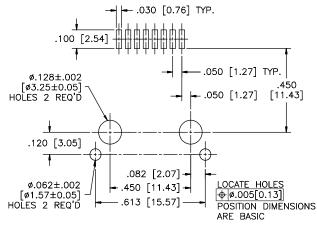
RJE07-188-2X20



FRONT VIEW



.105 .004 [0.10] .120 [3.05] .322 [8.18]



FRONT VIEW

47

SIDE VIEW

RECOMMENDED PCB LAYOUT

Amphenol Commercial Products - Amphenol Canada Corp. | Telephone: (416) 291-4401 | Fax: (416) 754-8668 | Email: sales@amphenolcanada.com All specifications are subject to change without notice. Catalogue is updated regularly. Please refer to www.amphenolcanada.com for the most recent edition.

TAB DOWN, SINGLE PORT, LOW PROFILE

The RJE15 low profile connector is built to meet your high volume RJ requirements. This is a true pick and place compatible SMT connector and is available with or without shielding, as well as with a variety of options including number of contacts, plating thickness, and color. This connector is built with high temperature engineering thermoplastic and suitable for IR Reflow solder process.



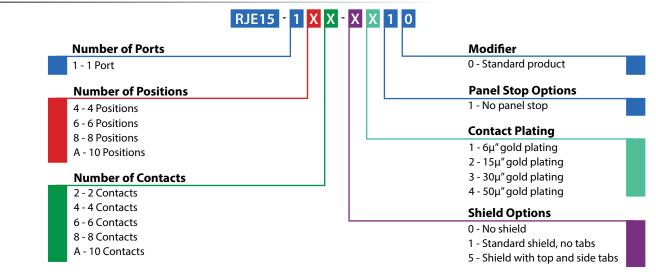
SPECIFICATIONS

Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating or gold flash on tail area
Shield:	Copper alloy; nickel plating overall

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering at 260°C for 6 to 8 secs max
Operating Temperature:	- 40°C to + 70°C

Electrical	
Contact Resistance	25 mΩ max.
Insulation resistance:	1000 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.

ORDERING INFORMATION



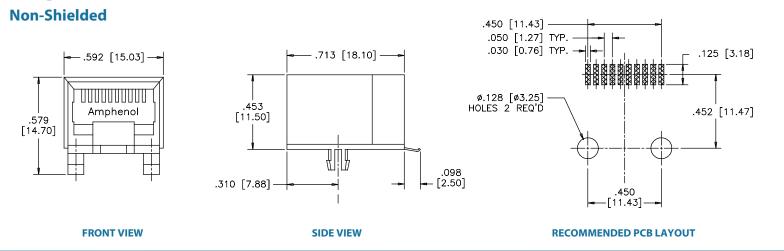
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TAB DOWN, SINGLE PORT, LOW PROFILE

RJE15-1AA-0X10

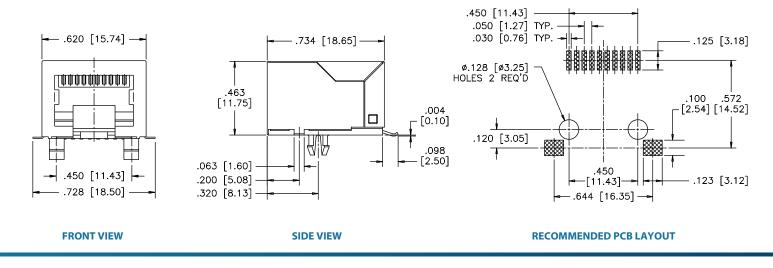
RJE15



Shielded

Single Port

RJE15-1AA-1X10



Notes



TAB DOWN, RJ45

The RJE56 series is designed for applications where soldering is not an option. The press fit contacts and shield tabs have the "eye of the needle" design and provide good PCB retention as well as reliable electrical performance.

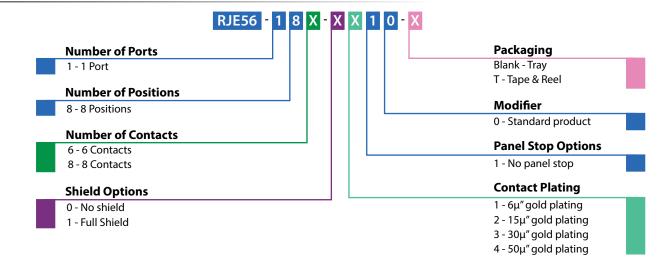


SPECIFICATIONS

Material				
Insulator:	PBT mat	PBT material; complies with UL 940-0; Black		
Contacts:	options contact	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on press fit tail		
Shield:	Stainless steel			
Electrical				
Contact Resistance		20 mΩ max.		
Insulation res	istance:	500 $M\Omega$ min. at 500V DC for 2 mins max.		
Current Rating:		1.5 Amps per contact		
Voltage Ratin	g:	125 Volts AC		
DWV:		1000 VAC, 60 Hz. 1 min.		

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 to 8 secs max
Operating Temperature:	- 55°C to + 85°C
* Note: Suitable for IR Reflow	

ORDERING INFORMATION



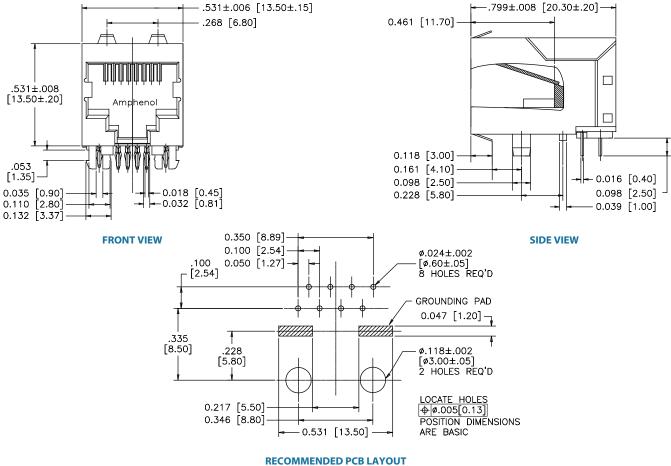
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Please contact sales@amphenolcanada.com and let us know what you need.



RJE56-188-1X10

Single Port Shielded .531±.006 [13.50±.15]



Notes

RJE06 SINGLE PORT, SLIM PROFILE

SINGLE PORT, SLIM PROFILE

RJE06 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE06 family include shielded & non-shielded, and 8P8C configurations.

SPECIFICATIONS

Material			Mechanical	
Insulator:	•	ring theromplastic;	Insertion Force:	5 lbs max.
·	s with UL 94V-0; Black	Pull Retention Force:	20 lbs min.	
•		r bronze hard temper with gold thickness (6μ", 15μ", 30μ", 50μ") over 50μ" min. nickel	Durability:	750 mating & unmating cycles
	ict mating area; 100μ″ min. matte tin or gold ting on tail area	Recommended Soldering Temperature:	Wave soldering peaked at 260°C for secs max.	
Shield:	ield: Copper alloy; nickel plating overall		Operating Temperature:	-40°C to + 70°C
		UL File #:	E136228	
Electrical	l		*Note: Connectors with high	temp. material are suitable for IR Reflow
Contact Res	istance	20 mΩ max.		
Insulation re	esistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.		
Current Rati	ng:	1.5 Amps per contact		
Voltage Rati	ing:	125 Volts AC		

1000 VAC, 60 Hz. 1 min.

-
•
-

ORDERING INFORMATION

DWV:

	Modifier
-1 Port	0 - Standard tail length
umber of Positions	1 - 4.0mm tail length
- 6 Positions	Panel Stop Options
- 8 Positions	1 - Without panel stop
	2 - With panel stop
umber of Contacts	
- 6 Contacts	Contact Plating
- 8 Contacts	1 - 6µ" gold plating
	2 - 15µ" gold plating

Didn't find what you were looking for?

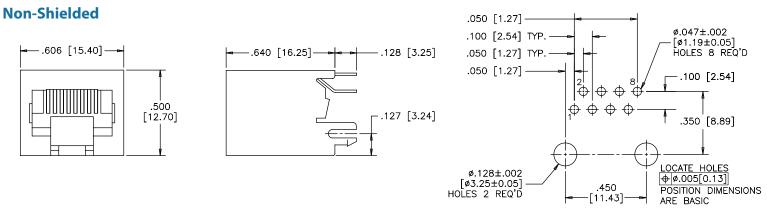
Please contact sales@amphenolcanada.com and let us know what you need.

THROUGH - HOLE

RJE06-188-0X10

RJE06 SINGLE PORT, SLIM PROFILE

Single Port



.128 [3.25]

.127 [3.24]

FRONT VIEW

.606 [15.40]-

.500

[12.70]

SIDE VIEW

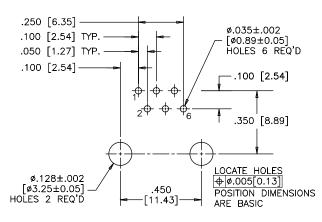
.630 [16.00]

п

 ϵ

Non-Shielded

RJE06-166-0X10



RECOMMENDED PCB LAYOUT

RECOMMENDED PCB LAYOUT

.350 [8.89]

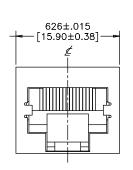
.100 [2.54]

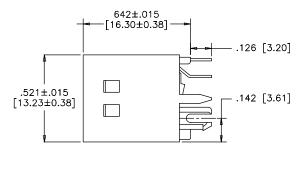
.050 [1.27]

ø.047±.002

Standard Shield

FRONT VIEW



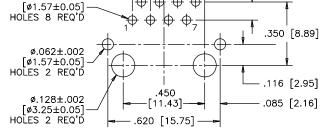


SIDE VIEW

LOCATE HOLES [↓ Ø.005[0.13]] POSITION DIMENSIONS ARE BASIC 2 | | 8 . .100 [2.54] ↓ 0 ↓ ↓ ↓

RJE06-188-1X10

- .050 [1.27]



FRONT VIEW

SIDE VIEW

RECOMMENDED PCB LAYOUT

RJE08 SINGLE AND DUAL PORT, STANDARD PROFILE

SINGLE AND DUAL PORT, STANDARD PROFILE

RJE08 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE08 include with and without panel stops, and RJ11 & RJ45 configurations.

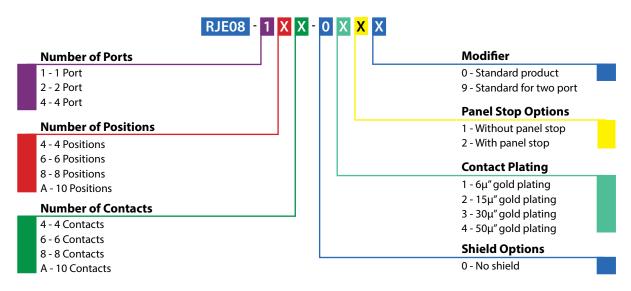
SPECIFICATIONS

Material			
Insulator:	Engineering theromplastic; Complies with UL 94V-0; Black		
Contacts:	options on cont	or bronze hard temper with gold thickness (6μ", 15μ", 30μ", 50μ") over 50μ" min. nickel act mating area; 100μ" min. matte tin or gold ating on tail area	
Electrical			
Contact Resist	tance	20 mΩ max.	
Insulation res	istance:	500 $M\Omega$ min. at 500V DC for 2 mins max.	
Current Ratin	g:	1.5 Amps per contact	
Voltage Rating	g:	125 Volts AC	

vonage nating.	125 Volts / te
DWV:	1000 VAC, 60 Hz. 1 min.

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	-40°C to + 70°C
UL File #:	E136228

ORDERING INFORMATION



Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

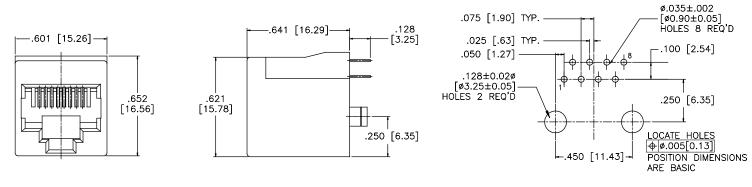


THROUGH - HOLE

RJE08 SINGLE AND DUAL PORT, STANDARD PROFILE

RJE08-188-0X10





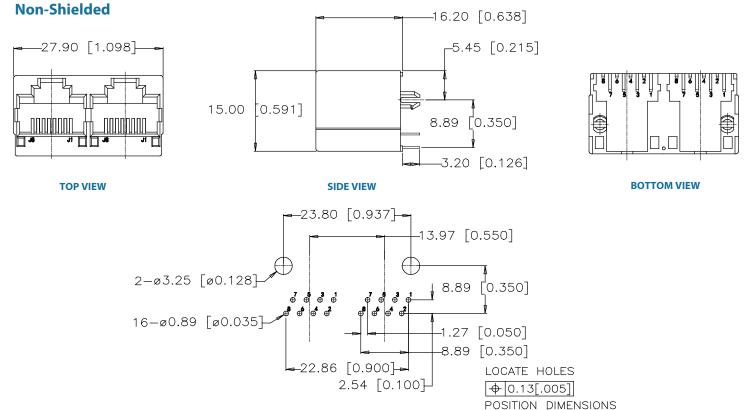
SIDE VIEW

RECOMMENDED PCB LAYOUT

Dual Port

TOP VIEW

RJE08-288-0X19



RECOMMENDED PCB LAYOUT

Notes

ARE BASIC



SINGLE PORT, STANDARD PROFILE

The RJE74 series, with superior EMI shielding, is built to fit your RJ requirements. The vertical 10P10C version is available with an RMK4 key interface to prevent 8P8C plug from entering and damaging the connector. Includes optional Mylar cover for automated assembly equpiment.

SPECIFICATIONS

Insulation resistance:

Current Rating:

Voltage Rating:

DWV:

Material		
Insulator:	High temp. theromplastic; Complies with UL 94V-0; Black	
Contacts:	Phosphor bronze hard temper with $30\mu''$ min. gold thickness over $50\mu''$ min. nickel on contact mating area; $100\mu''$ min. matte tin plating on soldering tail	
Shield:	Stainless steel; pure tin dipped tail	
Electrical		
Contact Resist	ance 20 m Ω max.	

1.5 Amps per contact

1000 VAC, 60 Hz. 1 min.

125 Volts AC

500 M Ω min. at 500V DC for 2 mins max.

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Peaked at 260°C for 5 secs max.
Operating Temperature:	-55°C to + 85°C
*Note: Suitable for IR Reflow	

ORDERING INFORMATION

Number of Ports		Packaging	
1 -1 Port		Blank - PBT, tray, without Mylar	
		A - High temp housing, tray, without Mylaı	
Number of Positions		H - High temp housing, tape & reel with M	yla
8 - 8 Positions			
A - 10 Positions		Modifier	
Normalian of Country at a		0 - Standard product	
Number of Contacts		1 - With RMK4 keying	
8 - 8 Contacts		Danal Stan Ontions	
A - 10 Contacts	L	Panel Stop Options	
Shield Options		1 - No panel stop	
0 - No shield	1	Contact Plating	
1 - Full shield		1 - 6µ" gold plating	
		2 - 15µ" gold plating	
		3 - 30µ" gold plating	
		4 - 50μ" gold plating	

Didn't find what you were looking for?

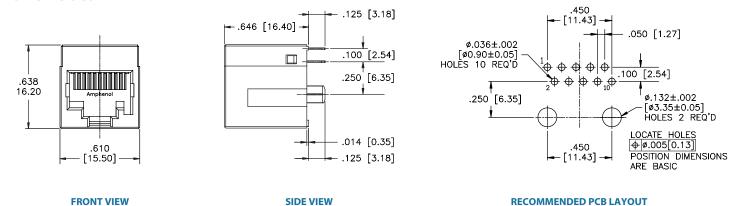
Please contact sales@amphenolcanada.com and let us know what you need.



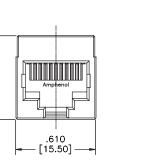
RJE74 SINGLE PORT, STANDARD PROFILE

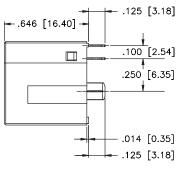
RJE74-1AA-0X10





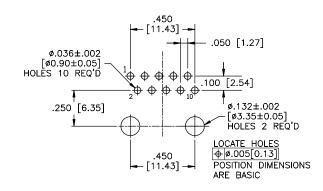
Non-Shielded with Keying





SIDE VIEW



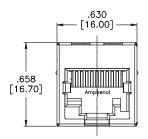


RECOMMENDED PCB LAYOUT

Shielded with Keying

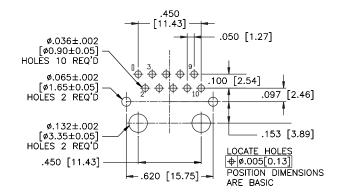
FRONT VIEW

.638 16.20



-.657 [16.7] -.644 [16.35] -.644 [16.35] -.125 [3.18] -.267 [6.78] -.125 [3.18] -.125 [3.18] -.125 [3.94]

RJE74-1AA-1X11



RECOMMENDED PCB LAYOUT

FRONT VIEW

SIDE VIEW

RJE88

SINGLE PORT, LOW PROFILE, WITH LEDs

SINGLE PORT, LOW PROFILE, WITH LEDs

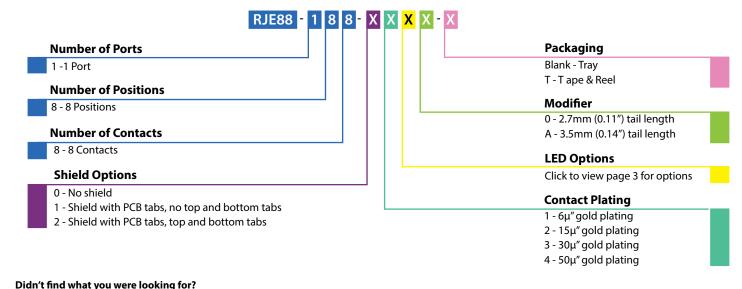
Vertical through-hole (THT) in single port RJ45 configurations with full shield or superior EMI protection. A variety of LED options for link activity and network verification are available. Made with high temperature composite and when accompanied with our high temperature resistant LEDs, these connectors are well suited for the IR Reflow process.



SPECIFICATIONS

Material			Electrical	
Insulator: High temp. theromplastic; Complies with UL 94V-0; Black		•	Contact Resistance	20 mΩ max.
			Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
•		ronze hard temper with gold thickness ", 15µ", 30µ", 50µ") over 50µ" min. nickel on	Current Rating:	1.5 Amps per contact
		ating area; 100µ" min. matte tin plating on	Voltage Rating:	125 Volts AC
	soldering ta		DWV:	1000 VAC, 60 Hz. 1 min.
Shield:	d: Stainless steel; pure tin dipped tail Tin plating on LED tails		LED Forward DC	20mA typical
LED:			Current:	
Mechanical		LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 2mA (for bicolours)	
Insertion Fo		5 lbs max.	LED Reverse Voltage:	5 Volts min.
Pull Retentio	on Force:	20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single
Durability:		750 mating & unmating cycles		colours) 0.5 mcd min. at 2mA (for bicolours)
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA
Operating Temperature:		-55°C to + 85°C		Red: 625 \pm 5 nm measured at 20mAw
*Note: Conne	ctors without L	EDs are suitable for IR Reflow		

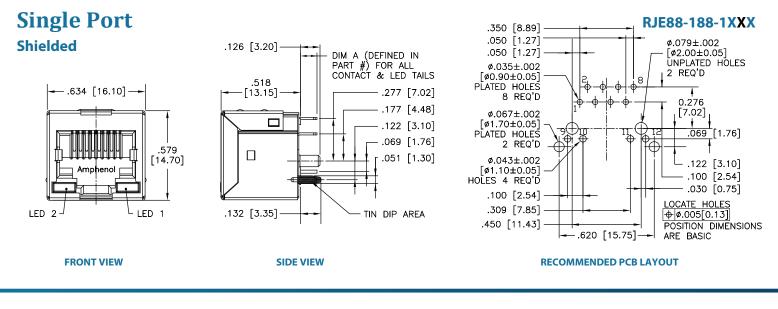
ORDERING INFORMATION



Didn't find what you were looking for?

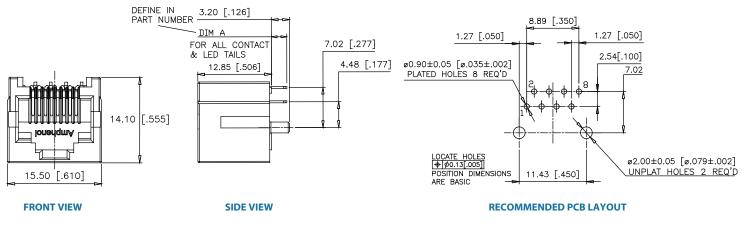
Please contact sales@amphenolcanada.com and let us know what you need.

RJE88 SINGLE PORT, LOW PROFILE, WITH LEDS



Non-Shielded

RJE88-188-0X0X



Notes



PORT, NARROW PROFILE

Multiple position and contact options, single port, vertical connector with no shield or LED options. Made with high temperature thermoplastic this series is suitable for the IR Reflow process. This series is ideal for high volume cost sensitive programs.

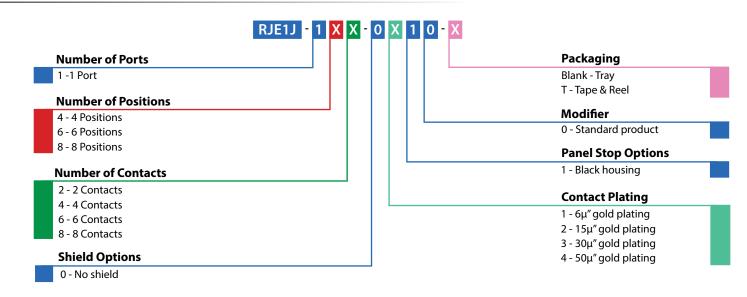
SPECIFICATIONS

Material	
Insulator:	High temp. theromplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on tail

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	-55°C to + 85°C
*Note: Suitable for IR Reflow	

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.

ORDERING INFORMATION



Didn't find what you were looking for?

60

Please contact sales@amphenolcanada.com and let us know what you need.

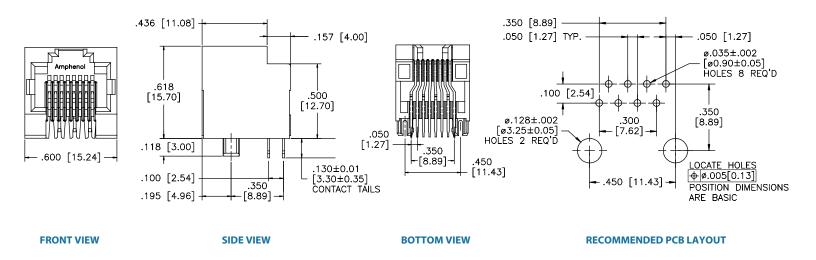


THROUGH - HOLE



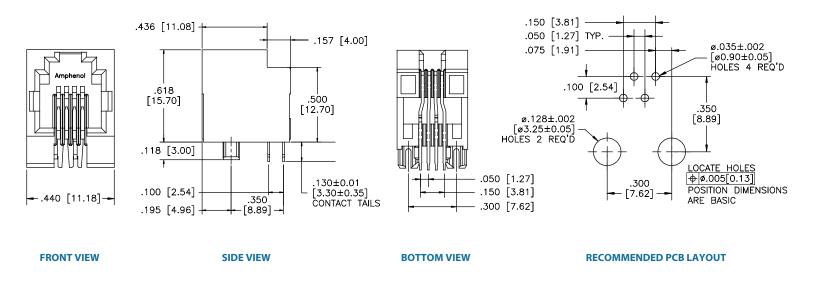
RJE1J-188-0X10

Single Port Non-Shielded



Non-Shielded

RJE1J-144-0X10





SINGLE PORT, SURFACE MOUNT

The RJE23 series is designed for high volume production where a vertical modular jack is required. Shielding provides increased EMI performance. Surface mount contacts and hold-down nail bracket assist in speeding up the production process.

SPECIFICATIONS

Material	
Insulator:	High temp. theromplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating over nickel on soldering tail
Shield:	Copper alloy; matte tin plating
Hold Down:	Copper alloy; matte tin plating
Coplanarity:	0.004" max. gap between all terminal tails

Mechanical

Insertion Force:	5 lbs max.	
Pull Retention Force:	20 lbs min.	
Durability:	750 mating & unmating cycles	
Operating Temperature:	-55°C to + 85°C	
*Note: Connector is suitable for IR Reflow		

ElectricalContact Resistance20 mΩ max.Insulation resistance:500 MΩ min. at 500V DC for 2 mins max.Current Rating:1.5 Amps per contactVoltage Rating:125 Volts ACDWV:1000 VAC, 60 Hz. 1 min.

ORDERING INFORMATION

Number of Ports			Packaging
1 -1 Port			Blank - Tray
			T - Tape & Reel
Number of Positions 4 - 4 Positions			Modifier
6 - 6 Positions		1	3 - Standard with solderplate & mylar tape
8 - 8 Positions			4 - Standard with solderplate
			6 - Standard with solderplate inward
Number of Contacts			Housing/Panel Stop Options
4 - 4 Contacts			· · ·
6 - 6 Contacts			1 - Black housing without panel stop
8 - 8 Contacts			2 - Black housing with panel stop
Shield Options			Contact Plating
0 - No shield			1 - 6μ″ gold plating
2 - Shield with no tabs			2 - 15µ" gold plating
3 - Shield with side tabs			3 - 30µ" gold plating
			4 - 50µ" gold plating

Didn't find what you were looking for?

62

Please contact sales@amphenolcanada.com and let us know what you need.

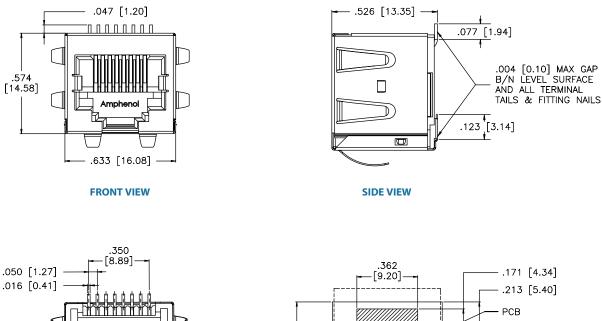


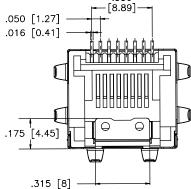
SURFACE MOUNT

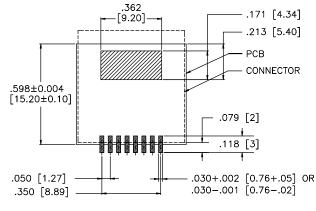


RJE23-188-3X16

Single Port





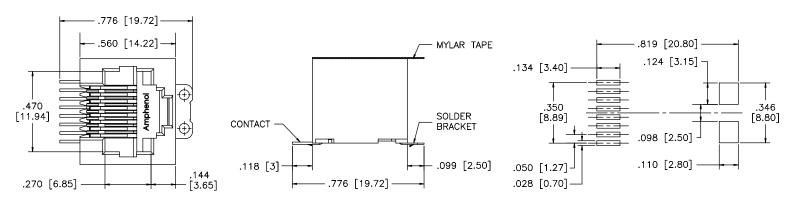


BOTTOM VIEW

RECOMMENDED PCB LAYOUT

Non-Shielded

RJE23-188-0X13



FRONT VIEW

SIDE VIEW

RECOMMENDED PCB LAYOUT

STACKED

RJE36 RJ45 OVER USB

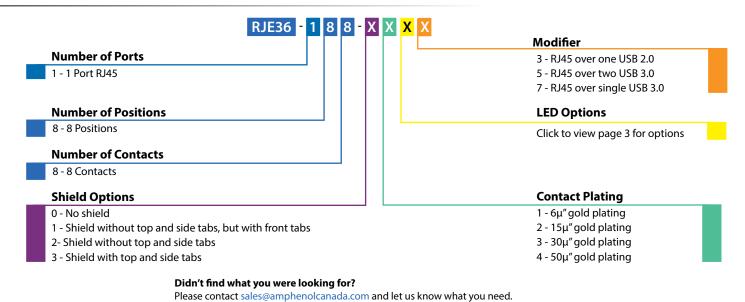
RJ45 OVER USB

RJ 45 over USB 2.0 type. A unique series that combines two different types of connectors: RJ45 and USB connectors. Configurations include RJ45 over a single USB and RJ45 over two USBs. The RJ is available with or without LEDs for link activity and network verification. Full shield for superior EMI protection with EMI tabs options.

SPECIFICATIONS

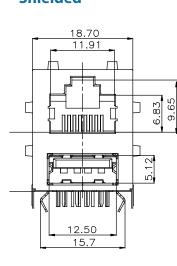
Material			Electrical	
Insulator: Engineering thermoplastic; Complies with UL 94V-0; Black			Contact Resistance	20 mΩ max.
			Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
•		ronze hard temper with gold thickness ", 15µ", 30µ", 50µ") over 50µ" min. nickel	Current Rating:	1.5 Amps per contact
		mating area; 100µ″ min. matte tin plating	Voltage Rating:	125 Volts AC
Shield: Copper alloy plated with Nickel		DWV:	Contact to contact: 1000 VAC, 60 Hz. 1 min.	
LED:	Tin plating on LED tails		LED Forward DC Current:	20mA typical
Mechanical		LED Forward Voltage:	1.6 -2.4 Volts max. at 2mA (for single colours)	
Insertion Force:		5 lbs max.	LED Reverse Voltage:	5 Volts min.
Pull Retention	n Force:	20 lbs min.	LED Light Intensity:	2 to 12 mcd min. at 20mA (for single
Durability:		750 mating & unmating cycles		colours)
Recommende Soldering Ten		Wave soldering peaked at 260°C for 5 secs max.	LED Wave Length:	Yellow: 590 \pm 5 nm measured at 20mA Green: 570 \pm 5 nm measured at 20mA Red: 650 \pm 15 nm measured at 20mA
Operating Temperature:		-20°C to + 85°C		
UL File #:		E136228		

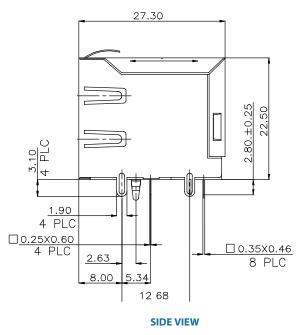
ORDERING INFORMATION





Single Port Shielded



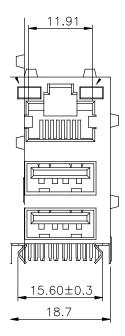


ø0.89 8 PLC 8.89 54 <u>ø0.92</u> 4 PLC 1.27 \sim F 34 .63 68 2.78 ы. 2 2. f† 2.00 ø2.30 8 PLC 7.00 LOCATE HOLES 13.14 **♦** Ø0.13 18.70 POSITION DIMENSIONS ARE BASIC

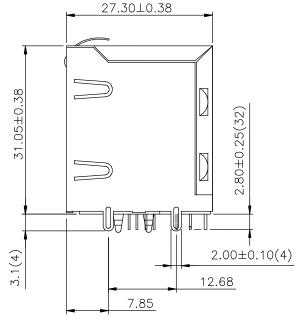
RECOMMENDED PCB LAYOUT

FRONT VIEW

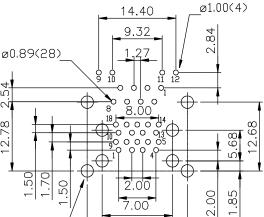
Dual Port Shielded with LEDs

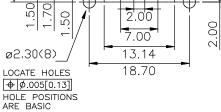


FRONT VIEW



SIDE VIEW





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,

78

N.

RECOMMENDED PCB LAYOUT

65



RJE36 **RJ45 OVER USB**

STACKED

RJE36-188-2X03

2, 4 AND 8 PORTS WITH LED AND SHIELD OPTIONS

2, 4 AND 8 PORTS WITH LED AND SHIELD OPTIONS

The RJSAE is a RJ45 stackable connector that reduces component and labor costs by incorporating LEDs. Its stackable feature enables more ports with the same board space. With superior EMI performance, the option of configuring your connector with a ferrite filter is available to further reduce crosstalk in noisy applications.

SPECIFICATIONS

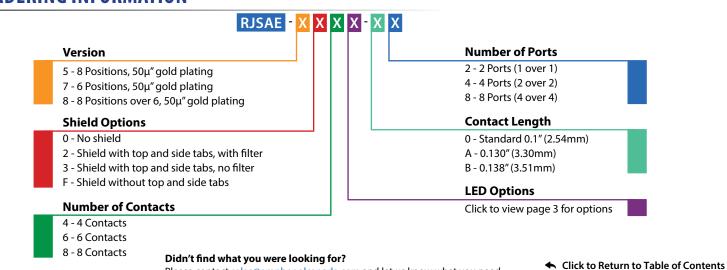
Material				
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black			
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on tail			
Shield:	Copper alloy; nickel plated or stainless steel with tin dripped tail (as specified in drawing)			
LED:	Tin plating on LED tail			
Mechanica	1			
Insertion Forc	e:	5 lbs max.		
Pull Retention	Force:	20 lbs min.		
Durability:		750 mating & unmating cycles		
Recommende Soldering Terr		Wave soldering peaked at 260°C for 5 secs max.		
Operating Ter	nperature:	-55°C to + 85°C		
UL File #:		E136228		
CSA File #:		150190		
*Note: Connectors without LEDs are suitable for IP Reflow:				

Electrical

Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	Contact to contact: 1000 VAC, 60 Hz. 1 min.
LED Forward DC Current:	20mA typical
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 2mA (for bicolours)
LED Reverse Voltage:	5 Volts min.
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA

*Note: Connectors without LEDs are suitable for IR Reflow; Connectors with Reflow LEDs available

ORDERING INFORMATION





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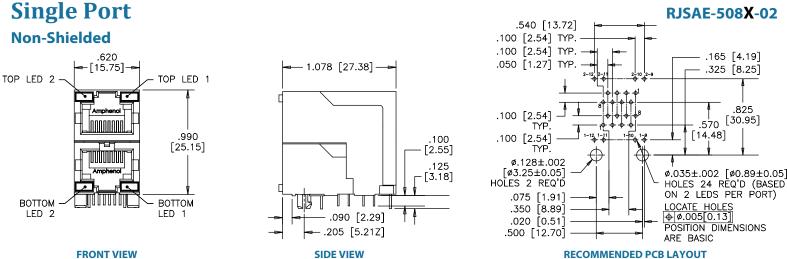
Please contact sales@amphenolcanada.com and let us know what you need.

STACKED

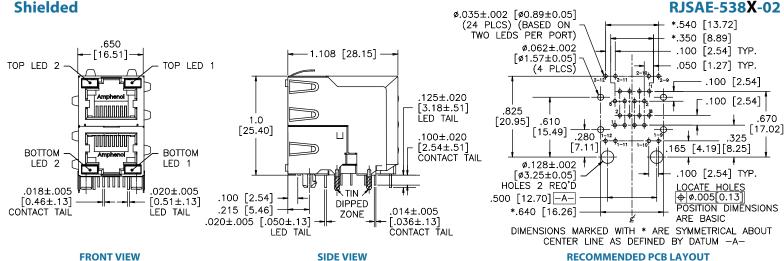
RJSAE

2, 4 AND 8 PORTS WITH LED AND SHIELD OPTIONS

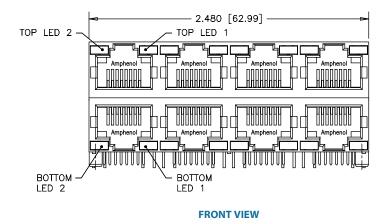
RJSAE-508X-02



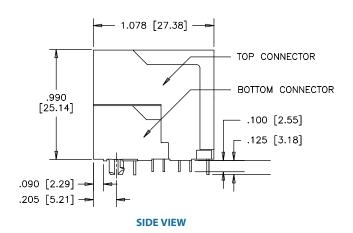
Shielded



Multi Port Non-Shielded



RJSAE-508X-08

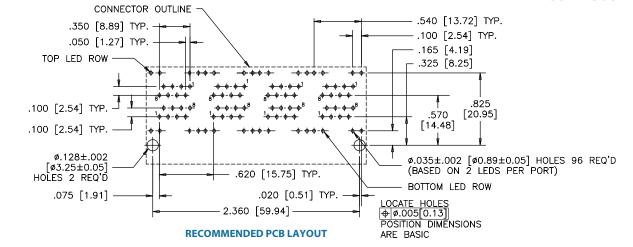


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Multi Port

RJSAE-508X-08



Shielded

2.510 [63.75] 1.108 [28.15] -.062+.032 [1.57+0.81] OR .062-.016 [1.57-0.41] TOP LED 2 -LED 1 TOP CONNECTOR 7 BOTTOM CONNECTOR AAAAAA .100±.010 1.062 1.000 [2.54±.25] [26.97] [25.4] воттом 125±.010 LED 2 [3.18±.25] И .016±.004 **UUUUUUU** YUUUUUUU .122±.004 [3.1±0.10] [0.41±0.10] BOTTOM LED 1 TIN DIPPED ZONE .100 [2.54] .020±.002 [0.51±0.05] X .020±.002 [0.51±0.05] .054±.004 [1.37±0.10] .215 [5.46] - .018±.002 [0.46±0.05] X .0137±.002 [0.35±0.05] .121±.004 [3.07±0.10] .136±.004 [3.45±0.10] **FRONT VIEW SIDE VIEW** .620 [15.75] TYP. CONNECTOR OUTLINE .540 [13.72] TYP. 350 .050 [1.27] TYP. .100 [2.54] TYP. [8.89] .825 [20.95] TOP LED ROW ŤΥΡ. .610 [15.49] ₩-0-2-12 2-11 .570 [14.48] .325 [8.25] .100 [2.54] TYP. -.280 [7.11] 1-10 .100 [2.54] TYP. -.165 [4.19] Ø.062±.002 [Ø1.57±0.05] Ø.035±.002 [Ø0.89±0.05] HOLES 96 REQ'D (BASED ON 2 LEDS PER PORT) HOLES 4 REQ'D .620 [15.75] TYP. ø.128±.002 [ø3.25±0.05] BOTTOM LED ROW HOLES 2 REQ'D .075 [1.91] .020 [0.51] TYP. -LOCATE HOLES .070 [1.78] TYP. 2.360 [59.94] POSITION DIMENSIONS ARE BASIC - 2.500 [63.50]

RECOMMENDED PCB LAYOUT

RJSAE-538X-08

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STACKED

4 OVER 4 PORTS WITH LED AND SHIELD OPTIONS

4 OVER 4 PORTS WITH LED AND SHIELD OPTIONS

The RJSNE series is a stacked connector that offers LED options for link activity and network verification. It is available with or without shielding. The RJSNE series also includes a unique inner shield device to reduce the crosstalk between top and bottom ports.

SPECIFICATIONS

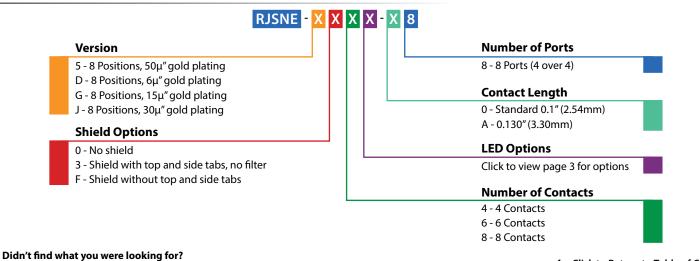
Material	
Insulator:	Engineering thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 1 5μ , 3 0μ , 5 0μ) over 5 0μ min. nickel on contact mating area; 10 0μ min. matte tin plating on tail
Shield:	Copper alloy; nickel plated or stainless steel with tin dipped tail
LED:	Pure tin plating on LED tail

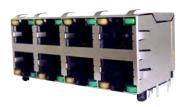
Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
	•
Soldering Temperature:	secs max.

Please contact sales@amphenolcanada.com and let us know what you need.

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.5 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.
LED Forward DC Current:	20mA typical
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)
LED Reverse Voltage:	5 Volts min.
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA

ORDERING INFORMATION





RJSNE

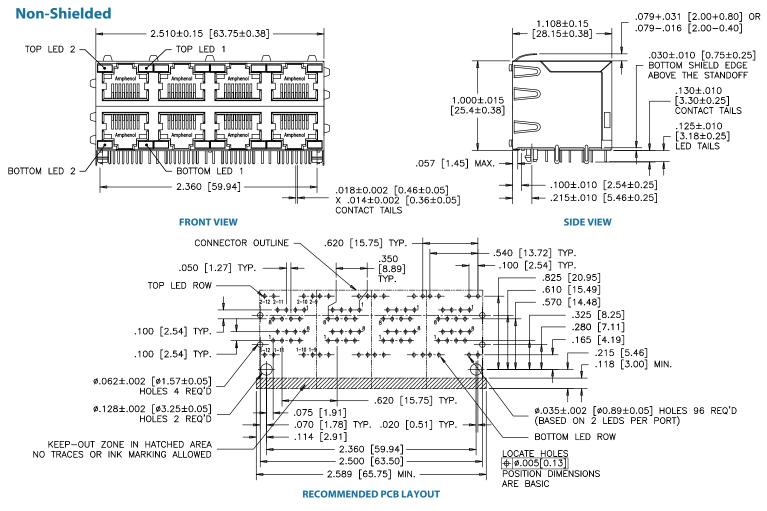
Click to Return to Table of Contents

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Single Port

RJSNE-538X-X8



Notes

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CAT 5e, RIGHT ANGLE, LOW PROFILE, WITH LEDS

RIGHT ANGLED, LOW PROFILE, WITH LEDs

The RJE48 series of modular jacks meet CAT 5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding is available for increased EMI performance and LEDs for link activity and network verification.

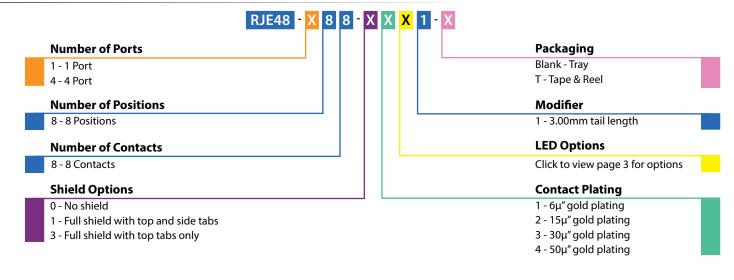
SPECIFICATIONS

Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on solder tails
Shield:	Stainless steel with tin dipped tails
LED:	Tin plating on LED tail

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	Wave soldering peaked at 260°C for 5 secs max.
Operating Temperature:	-55°C to + 85°C

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.25 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.
LED Forward DC Current:	20mA typical
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)
LED Reverse Voltage:	5 Volts min.
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA

ORDERING INFORMATION



Didn't find what you were looking for?

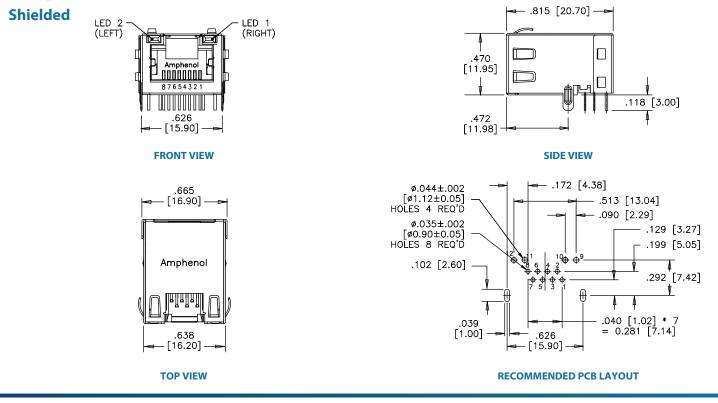
Please contact sales@amphenolcanada.com and let us know what you need.

CAT 5e

RJE48 CAT 5e, RIGHT ANGLE, LOW PROFILE, WITH LEDS

Single Port

RJE48-188-1XX1



Multi Port

Shielded .563 [14.3] * 3 = 1.69 [42.9] -.815 [20.70] .039 LED 1 LED 2 (LEFT) [1.00] (RIGHT) Þ Ħ 470 Amphenol Amphenol H B [11.95] TTUUUUU .118 [3.00] .472 [11.98] 2.28 [57.80] .592 [15.05]-TIN DIPPING **FRONT VIEW SIDE VIEW** ø.044±.002 [ø1.12±0.05] .153 [3.88] .563 [14.3] * 3 2.31 [58.80] HOLES 16 REQ'D .090 [2.29] TYP. = 1.69 [42.90] ø.035±.002 .090 [2.29] TYP. 153 [3.88] [ø0.90±0.05] HOLĖS 32 REQ'D ŧ. ⊕³² 30 28 26 ⊕ ⊕ ⊕ ⊕ ₿' ቆ .292 **₩₩₩₩ ΦΦΦΦ** 31 29 27 25 ∲ 6 13 **⊕ ⊕ ⊕ ⊕** 43 41 39 37 [7.42] Amphenol .121 [3.07] --1.13 [28.60] .218 [5.42] RIRIRI .102 [2.60] ø.098±.002 .199 [5.05] .513 [13.04] [ø2.50±0.05] .575 [14.60] HOLES 2 REQ'D .129 [3.27] .040 [1.02] * 7 = 0.281 [7.14] 2.29 [58.10] -.039 [1.00] - 2.28 [57.80] -**TOP VIEW RECOMMENDED PCB LAYOUT**

RJE48-488-1XX1

RJE58 CAT 5e, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

RIGHT ANGLED, STANDARD PROFILE, WITH LEDs

The RJE58 series of modular jacks meet CAT 5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding is available for increased EMI performance and LEDs for link activity and network speed verification.

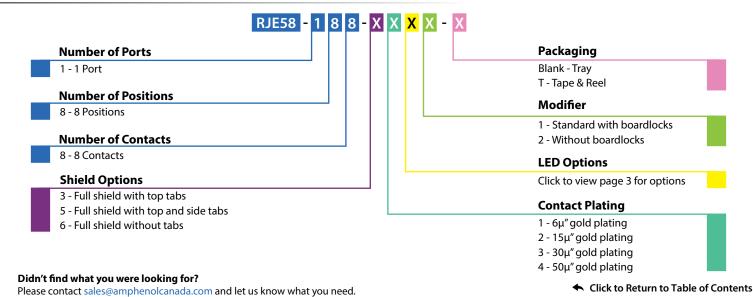
SPECIFICATIONS

Material	
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on solder tails
Shield:	Stainless steel with tin dipped tails
LED:	Tin plating on LED tail

Mechanical	
Insertion Force:	5 lbs max.
Pull Retention Force:	20 lbs min.
Durability:	750 mating & unmating cycles
Recommended Soldering Temperature:	IR Reflow peaked at 260°C for 5 secs max.
Operating Temperature:	-55°C to + 85°C

Electrical	
Contact Resistance	20 mΩ max.
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.
Current Rating:	1.25 Amps per contact
Voltage Rating:	125 Volts AC
DWV:	1000 VAC, 60 Hz. 1 min.
LED Forward DC Current:	20mA typical
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)
LED Reverse Voltage:	5 Volts min.
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA

ORDERING INFORMATION

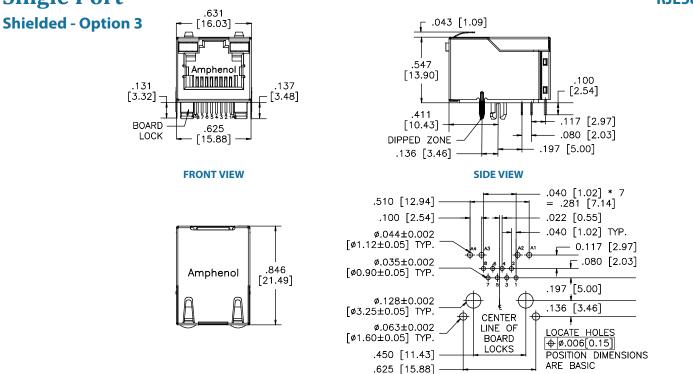


\mathbf{R}

CAT 5e, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

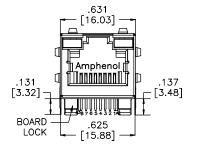
Single Port

RJE58-188-3XX1



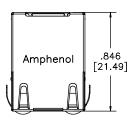
RECOMMENDED PCB LAYOUT

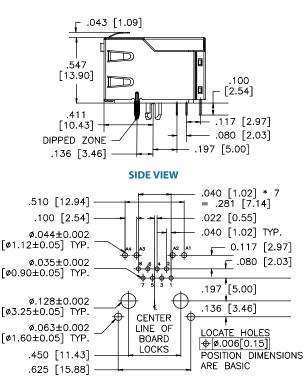
Shielded - Option 5



TOP VIEW

FRONT VIEW





TOP VIEW

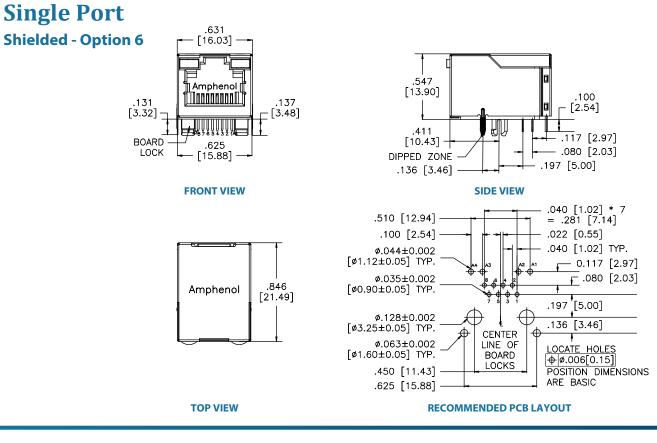
RECOMMENDED PCB LAYOUT

RJE58-188-5XX1

RJE58

CAT 5e, RIGHT ANGLE, STANDARD PROFILE, WITH LEDs

RJE58-188-6XX1



Notes

RJE72 CAT 5e, RIGHT ANGLE, RECESSED, LOW PROFILE WITH LEDS

RIGHT ANGLE, RECESSED, LOW PROFILE WITH LEDs

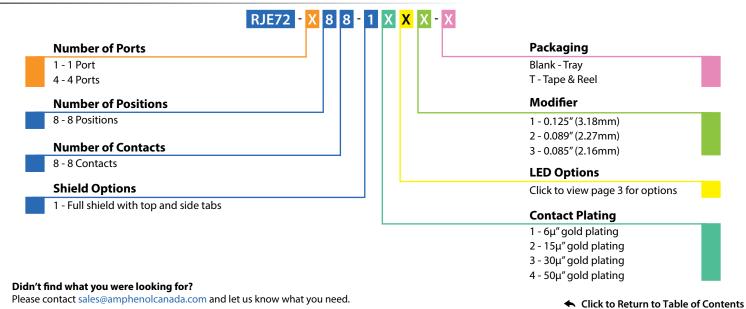
The RJE72 series of modular jacks meet CAT 5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.

SPECIFICATIONS

Material			Electrical		
Insulator:	High temp. thermoplastic;		Contact Resistance	20 mΩ max.	
-		ith UL 94V-0; Black	Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.	
•		ronze hard temper with gold thickness ", 15μ", 30μ", 50μ") over 50μ" min. nickel on	Current Rating:	1.25 Amps per contact	
		ting area; 100 μ " min. matte tin plating on	Voltage Rating:	125 Volts AC	
	solder tails		DWV:	1000 VAC, 60 Hz. 1 min.	
Shield:	Stainless steel with tin dipped tails		LED Forward DC	20mA typical	
LED:	Tin plating on LED tail		Current:		
Mechanical		LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)		
Insertion Force:		5 lbs max.	LED Reverse Voltage:	5 Volts min.	
Pull Retention	n Force:	20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single	
Durability:		750 mating & unmating cycles		colours) 0.5 mcd min. at 2mA (for bicolours)	
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA	
Operating Ter	mperature:	-55°C to + 85°C		Red: 625 \pm 5 nm measured at 20mA	
UL file #:		E135615			

*Note: IR Reflow compatible; Consult factory for details

ORDERING INFORMATION

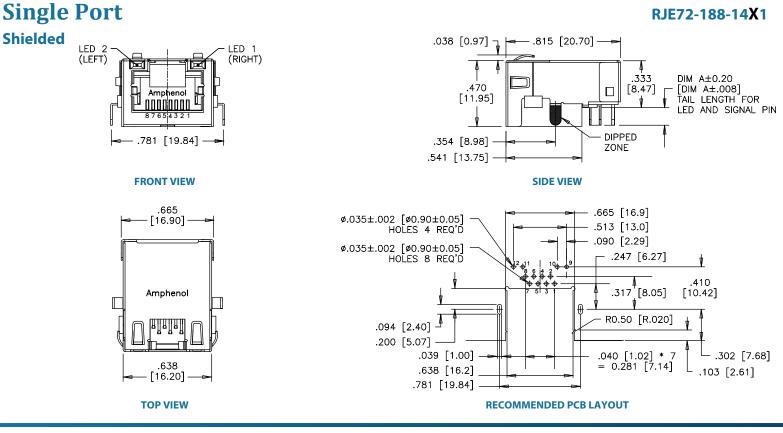


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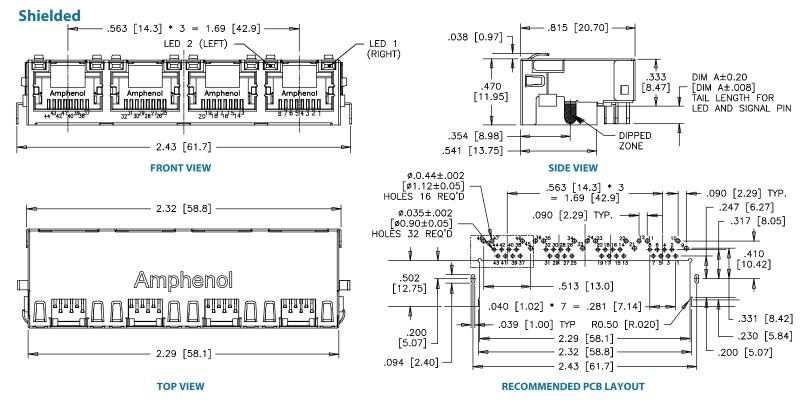
RJE72 CAT 5e, RIGHT ANGLE, RECESSED, LOW PROFILE WITH LEDS

RJE72-188-14X1



Multi Port

RJE72-488-14X1



CAT 5e

RJSGE

CAT 5e, 2 OVER 2 PORTS, PRESS FIT, WITH LEDs

2 OVER 2 PORTS, PRESS FIT, WITH LEDs

The RJSGE series of modular jacks meet CAT 5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for Link Activity and Network Speed verification.

SPECIFICATIONS

Mechanical Insertion Force:

Durability:

Recommended

Pull Retention Force:

Soldering Temperature:

Operating Temperature:

Material	
Insulator:	Engineering thermoplastic; Complies with UL 94V-0; Black
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on solder tails
Shield:	Stainless steal with press-fit tails
LED:	Press-fit with tin plating on LED tails

5 lbs max.

20 lbs min.

secs max.

-55°C to + 85°C

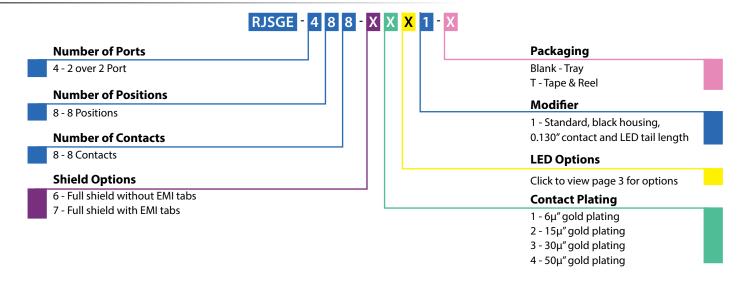
750 mating & unmating cycles

Wave soldering peaked at 260°C for 5

Electrical			
Contact Resistance	20 mΩ max.		
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.		
Current Rating:	1.25 Amps per contact		
Voltage Rating:	125 Volts AC		
DWV:	1000 VAC, 60 Hz. 1 min.		
LED Forward DC Current:	20mA typical		
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)		
LED Reverse Voltage:	5 Volts max.		
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)		
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 570 \pm 5 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA		

*Note: IR Reflow compatible; Consult factory for details

ORDERING INFORMATION



Didn't find what you were looking for?

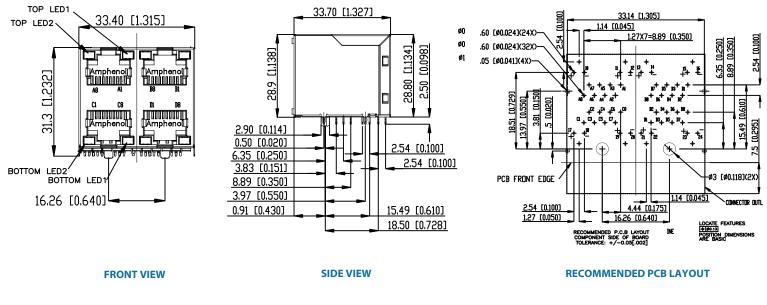
Please contact sales@amphenolcanada.com and let us know what you need.



CAT 5e, 2 OVER 2 PORTS, PRESS FIT, WITH LEDS

RJSGE-488-6XX1

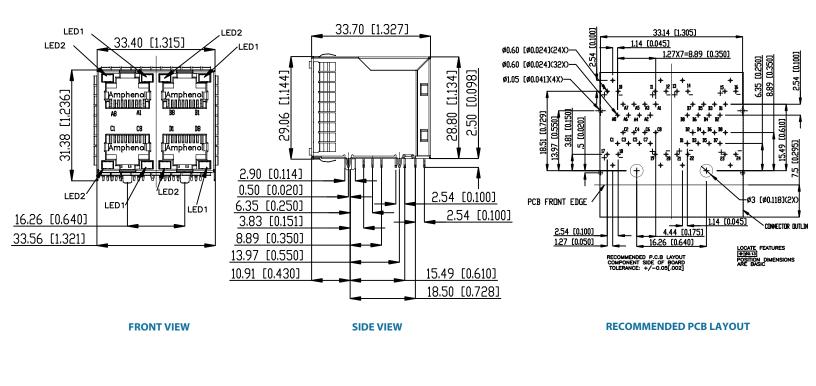
Four Port Shielded - with no EMI Tabs



Measurements: mm [Inches]

RJSGE-488-7XX1

Shielded - with EMI Tabs



Measurements: mm [Inches]

RJE45 CAT 6, SINGLE PORT, LOW PROFILE, WITH LEDS

SINGLE PORT, LOW PROFILE, WITH LEDs

The RJE45 series of modular jacks meet CAT 6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10 Gig links in applications up to 50m. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.

SPECIFICATIONS

Material					
Insulator:	5 1	High temp. thermoplastic; Complies with UL 94V-0; Black			
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on solder tails				
Shield:	Stainless st	Stainless steel with tin dipped tails			
LED:	Tin plating	Tin plating on LED tail			
Mechanical					
Insertion Force:		5 lbs max.			
Pull Retention Force:		20 lbs min.			
Durability:		750 mating & unmating cycles			
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max. or lead free reflow soldering up to 260°C for 10 secs for one cycle with an LED defect rate of no more than 1000ppm			
Operating Temperature:		-55°C to + 85°C			

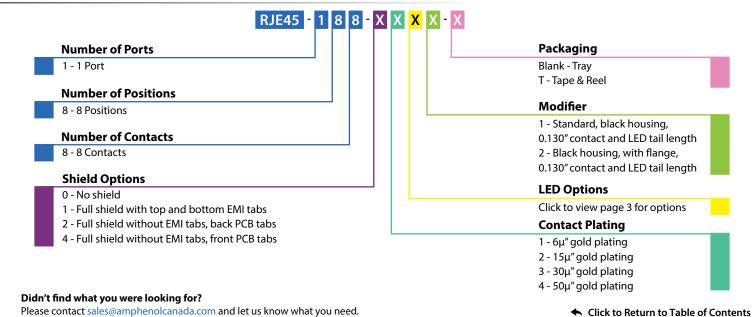
Electrical

Electrical			
Contact Resistance	20 mΩ max.		
Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.		
Current Rating:	1.25 Amps per contact		
Voltage Rating:	125 Volts AC		
DWV:	1000 VAC, 60 Hz. 1 min.		
LED Forward DC Current:	20mA typical		
LED Forward Voltage:	1.9 Volts max. at 2mA		
LED Reverse Voltage:	5 Volts min.		
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA		
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA		

*Note: Multiple exposures not recommended

ORDERING INFORMATION

80







R. F CAT 6, SINGLE PORT, LOW PROFILE, WITH LEDs

> .130 [3.30] .100 [2.54]

> > .350

[8.89]

.250 [6.35]

.100 [2.54]

LOCATE HOLES

POSITION DIMENSIONS

♦ø.005[0.13]

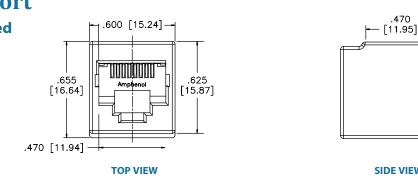
ARE BASIC

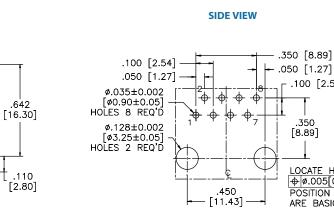
.350 [8.89]

RJE45-188-0X01

CAT 6









450

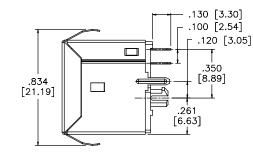
[11.43]

.600 [15.24] -

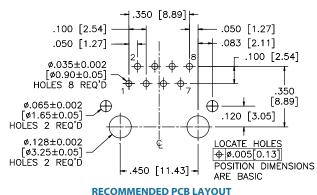


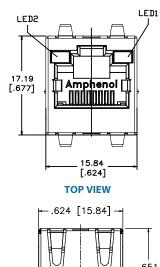


Shielded

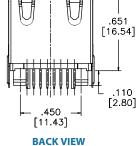








RECOMMENDED PCB LAYOUT



RJE49 CAT 6, RIGHT ANGLE, LOW PROFILE, WITH LEDS

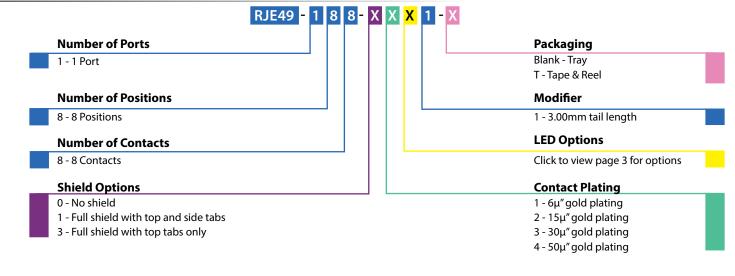
RIGHT ANGLE, LOW PROFILE, WITH LEDs

The RJE49 series of modular jacks meet CAT 6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding is available for increased EMI performance and LEDs for link activity and network verification.

SPECIFICATIONS

Material				
Insulator:	5 1	High temp. thermoplastic; Complies with UL 94V-0; Black		
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ , 15μ , 30μ , 50μ) over 50μ min. nickel on contact mating area; 100μ min. matte tin plating on solder tails			
Shield:	Stainless steel with tin dipped tails			
LED:	Tin plating on LED tail			
Mechanical				
Insertion Forc	e:	5 lbs max.		
Pull Retention Force:		20 lbs min.		
Durability:		750 mating & unmating cycles		
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max.		
Operating Temperature:		-55°C to + 85°C		

ORDERING INFORMATION





Didn't find what you were looking for?

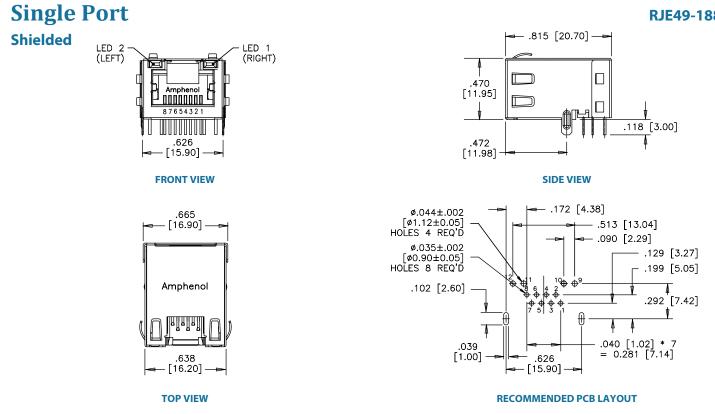
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R.IE/

CAT 6, RIGHT ANGLE, LOW PROFILE, WITH LEDS

RJE49-188-1XX1

CAT 6



Notes

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RJE59 CAT 6, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

RIGHT ANGLE, STANDARD PROFILE, WITH LEDs

The RJE59 series of modular jacks meet CAT 6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding is available for increased EMI performance and LEDs for link activity and network speed verification.

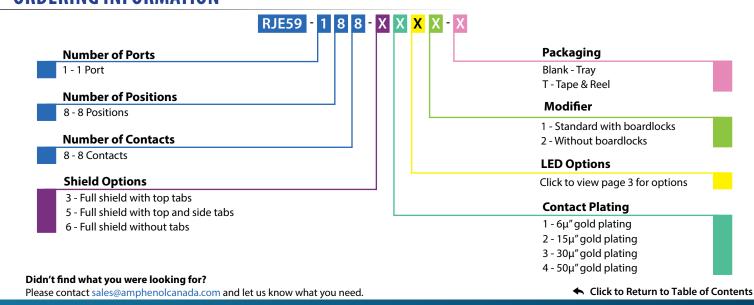
SPECIFICATIONS

Material			H	Electrical		
Insulator:	5 • • • • • •		C	Contact Resistance	20 mΩ max.	
	•	ith UL 94V-0; Black	h	nsulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.	
•		ronze hard temper with gold thickness ", 15μ", 30μ", 50μ") over 50μ" min. nickel on		Current Rating:	1.25 Amps per contact	
		contact mating area; $100\mu^{\prime\prime}$ min. matte tin plating on solder tails		/oltage Rating:	125 Volts AC	
				OWV:	1000 VAC, 60 Hz. 1 min.	
Shield:	Stainless steel with tin dipped tails		L	ED Forward DC	20mA typical	
LED:	Tin plating on LED tail		C	Current:		
Mechanic	Mechanical		L	ED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)	
Insertion Force:		5 lbs max.	L	ED Reverse Voltage:	5 Volts min.	
Pull Retentio	on Force:	20 lbs min.		ED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours)	
Durability:		750 mating & unmating cycles			0.5 mcd min. at 2mA (for bicolours)	
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 10 secs max. for one cycle with an LED defect rate of no more than 100ppm		.ED Wave .ength:	Yellow: 587 ± 7 nm measured at 20mA Green: 565 ± 6 nm measured at 20mA Red: 625 ± 5 nm measured at 20mA	
Operating Temperature: -55°C to + 85°C		-55°C to + 85°C				
**						

*Note: multiple exposures not recommended; IR Reflow compatible version also available; Consult factory for details

ORDERING INFORMATION

84

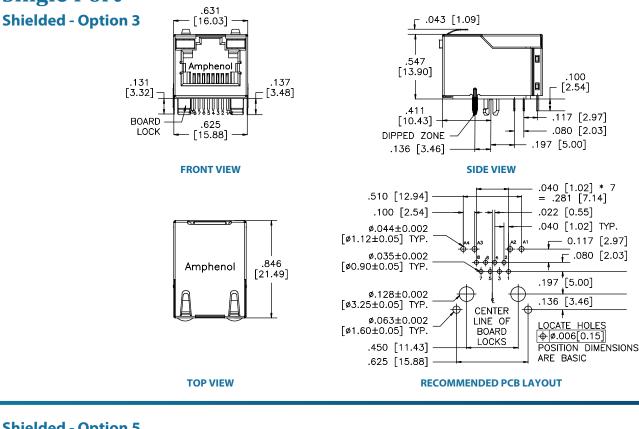




R

CAT 6, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

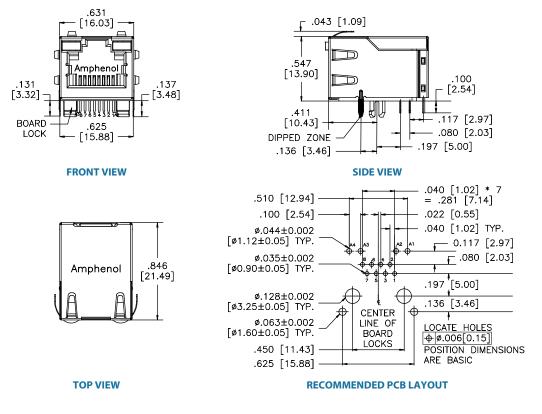
RJE59-188-3XX1



Shielded - Option 5

Single Port

RJE59-188-5XX1



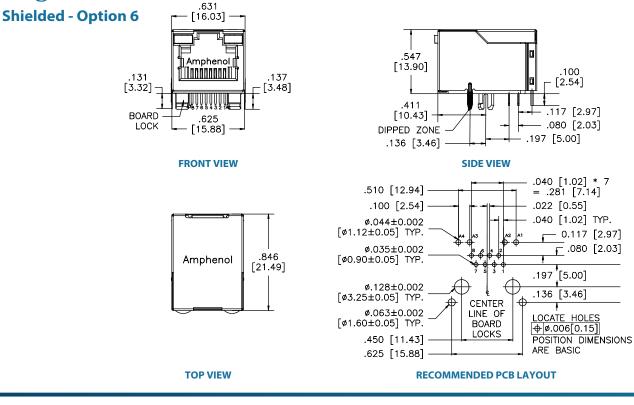
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CAT 6



Single Port

RJE59-188-6XX1



Notes

RJE71

CAT 6, RIGHT ANGLE, RECESSED, LOW PROFILE, WITH LEDs

RIGHT ANGLED, RECESSED, LOW PROFILE, WITH LEDs

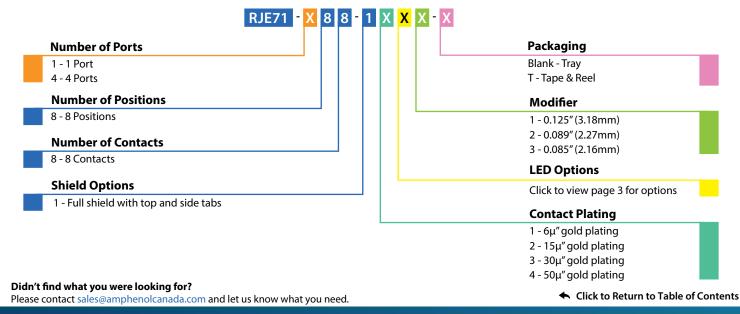
The RJE71 series of modular jacks meet CAT 6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.

SPECIFICATIONS

Material			Electrical		
Insulator:	5 1 1 1		Contact Resistance	20 mΩ max.	
	•	ith UL 94V-0; Black	Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.	
		ronze hard temper with gold thickness ", 15μ", 30μ", 50μ") over 50μ" min. nickel on	Current Rating:	1.25 Amps per contact	
	contact mat solder tails	ing area; 100μ" min. matte tin plating on	Voltage Rating:	125 Volts AC	
			DWV:	1000 VAC, 60 Hz. 1 min.	
Shield: LED:	Stainless ste Tin plating o	eel with tin dipped tails on LED tail	LED Forward DC Current:	20mA typical	
Mechanical		LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)		
Insertion Fo	rce:	5 lbs max.	LED Reverse Voltage:	5 Volts min.	
Pull Retention Force:		20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single	
Durability:		750 mating & unmating cycles		colours) 0.5 mcd min. at 2mA (for bicolours)	
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA	
Operating Temperature:		-55°C to + 85°C		Red: 625 \pm 5 nm measured at 20mA	
UL File:		E135615			

*Note: IR Reflow compatible version also available; Consult factory for details

ORDERING INFORMATION





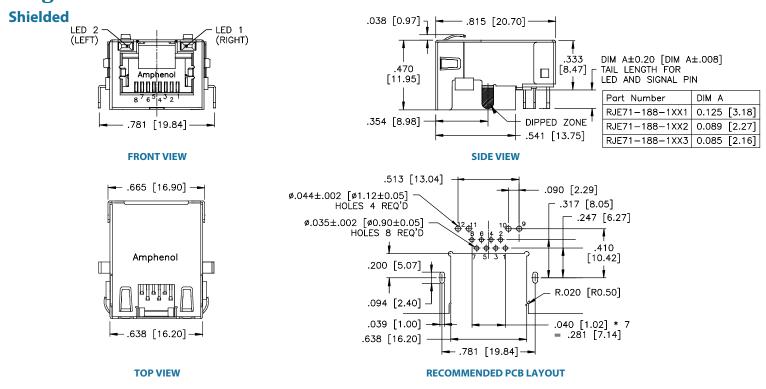
87

CAT 6, RIGHT ANGLE, RECESSED, LOW PROFILE, WITH LEDS

Single Port

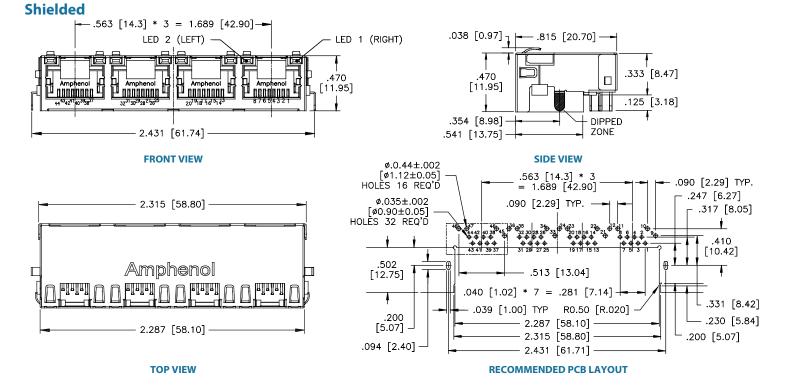
RJE71

RJE71-188-1XXX



Multi Port

RJE71-488-1XX1



CAT 5e/CAT 6

RJE1R CAT 5e/CAT 6, 1 OVER 1 PORT WITH LEDS

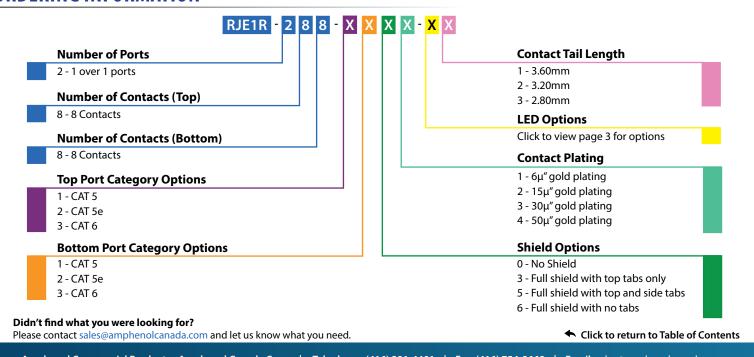
CAT 5e, CAT 6, 1 OVER 1 PORT WITH LEDs

The RJE1R series is a unique 2x1 stacked connector. Two 8P8C ports with the option to choose from three different performances levels for each individual port: Cat5 equivalent, Cat5e, or Cat6. Each port will meet their designated performance as per EIA-568-C.2. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.

SPECIFICATIONS

Material			Electrical	
Insulator:		thermoplastic;	Contact Resistance	20 mΩ max.
	Complies w	ith UL 94V-0; Black	Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
Contacts:		ronze hard temper with gold thickness ", 15µ", 30µ", 50µ") over 50µ" min. nickel on	Current Rating:	1.25 Amps per contact
		ting area; $100\mu''$ min. matte tin plating on	Voltage Rating:	125 Volts AC
solder tails			DWV:	1000 VAC, 60 Hz. 1 min.
Shield:	Stainless ste	eel with tin dipped tails	LED Forward DC Current:	20mA typical
LED:	Tin plating	on LED tails		
Mechanical			LED Forward Voltage	 1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)
Insertion Force:		5 lbs max.	LED Reverse Voltage:	5 Volts min.
Pull Retention Force:		20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
Durability:		750 mating & unmating cycles		
Recommended Soldering Temperature:		IR reflow peaked at 260°C for 5 to 8 secs.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA
Operating Temperature:		Ire: -55°C to + 85°C		Red: 625 \pm 5 nm measured at 20mA
			*Note: IR Reflow is not recommended for connectors with LEDs	

ORDERING INFORMATION

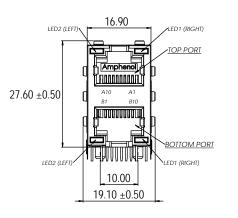




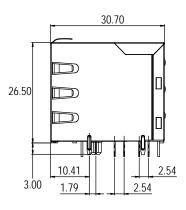
One Over One Port

RJE1R-288-XX3X-XX

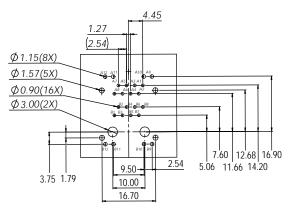
Shielded



FRONT VIEW



SIDE VIEW



RECOMMENDED PCB LAYOUT

Measurements: mm

Notes

CAT 6A, SINGLE PORT, LOW PROFILE, WITH LEDs

RJE4

VERTICAL, LOW PROFILE, WITH LEDs

The RJE4A series of modular jacks meet CAT 6A performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.

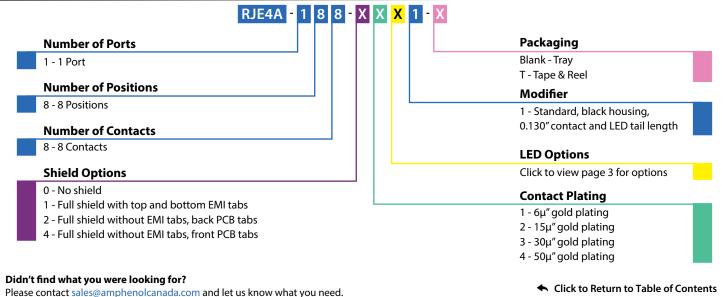
SPECIFICATIONS

Material			
Insulator:	High temp. thermoplastic; Complies with UL 94V-0; Black		
Contacts:	Phosphor bronze hard temper with gold thickness options (6μ ", 15μ ", 30μ ", 50μ ") over 50μ " min. nickel on contact mating area; 100μ " min. matte tin plating on solder tails		
Shield:	Stainless steel with tin dipped tails		
LED:	Tin plating on LED tail		
Mechanical			
Insertion Force:		5 lbs max.	
Pull Retention Force:		20 lbs min.	
Durability:		750 mating & unmating cycles	
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 5 secs max. or lead free reflow soldering up to 260°C for 10 secs for one cycle with an LED defect rate of no more tha 1000ppm	
Operating Temperature:		-55°C to + 85°C	

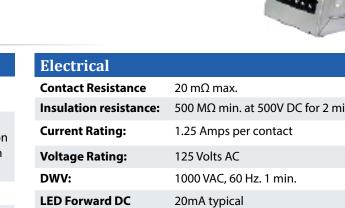
Electrical			
Contact Resistance	20 mΩ max.		
Insulation resistance:	500 $M\Omega$ min. at 500V DC for 2 mins max.		
Current Rating:	1.25 Amps per contact		
Voltage Rating:	125 Volts AC		
DWV:	1000 VAC, 60 Hz. 1 min.		
LED Forward DC Current:	20mA typical		
LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)		
LED Reverse Voltage:	5 Volts min.		
LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)		
LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA		

*Note: Multiple exposures not recommended

ORDERING INFORMATION

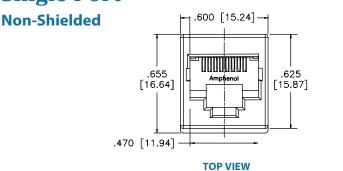


All specifications are subject to change without notice. Catalogue is updated regularly. Please refer to www.amphenolcanada.com for the most recent edition.



RJE4A CAT 6A, SINGLE PORT, LOW PROFILE, WITH LEDS

Single Port



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.450

[11.43]

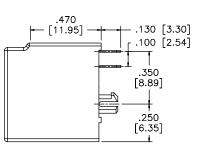
TI

BACK VIEW

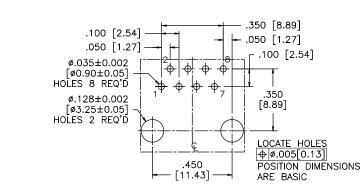
.642 [16.30]

.110

[2.80]

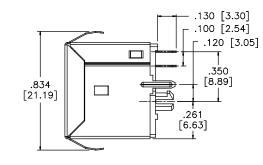


SIDE VIEW

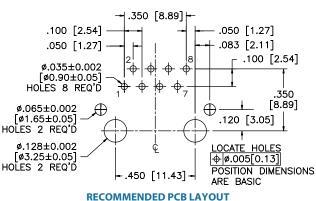


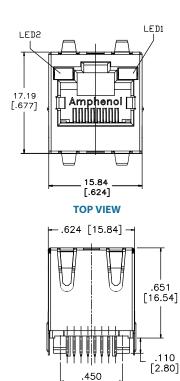
RECOMMENDED PCB LAYOUT

Shielded



SIDE VIEW





[11.43]

BACK VIEW



RJE4A-188-0X01

Amphenol Commercial Products - Amphenol Canada Corp. | Telephone: (416) 291-4401 | Fax: (416) 754-8668 | Email: sales@amphenolcanada.com All specifications are subject to change without notice. Catalogue is updated regularly. Please refer to <u>www.amphenolcanada.com</u> for the most recent edition.

CAT 6A

CAT 6A, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

RIGHT ANGLED, STANDARD PROFILE, WITH LEDs

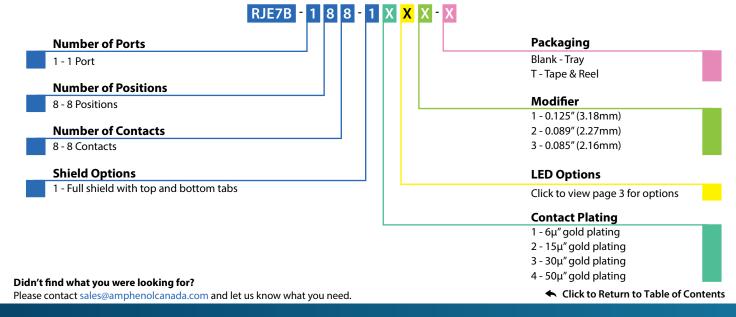
The RJE7B series of modular jacks meet CAT 6A performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10G Ethernet over lengths of up to 100m. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.

SPECIFICATIONS

Material			Electrical	
Insulator:	• .	thermoplastic;	Contact Resistance	20 mΩ max.
	Complies with UL 94V-0; Black colour		Insulation resistance:	500 M Ω min. at 500V DC for 2 mins max.
•		ronze hard temper with gold thickness ", 15µ", 30µ", 50µ") over 50µ" min. nickel on	Current Rating:	1.25 Amps per contact
	contact ma solder tails	ting area; $100\mu^{\prime\prime}$ min. matte tin plating on	Voltage Rating:	125 Volts AC
solder t		IS	DWV:	1000 VAC, 60 Hz. 1 min.
Shield:	Stainless steel with tin dipped tails		LED Forward DC	20mA typical
LED:	Tin plating	on LED tails	Current:	
Mechanic	cal		LED Forward Voltage:	1.9 Volts max. at 2mA (for single colours) 2.6 Volts max. at 20mA (for bicolours)
Insertion Force:		5 lbs max.	LED Reverse Voltage:	5 Volts min.
Pull Retention Force:		20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
Durability:		750 mating & unmating cycles		
Recommended Soldering Temperature:		IR reflow peaked at 260°C for 5 to 8 secs.	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA
Operating Temperature:		-55°C to + 85°C		Red: 625 \pm 5 nm measured at 20mA

*Note: IR Reflow compatible version also available; Consult factory for details

ORDERING INFORMATION

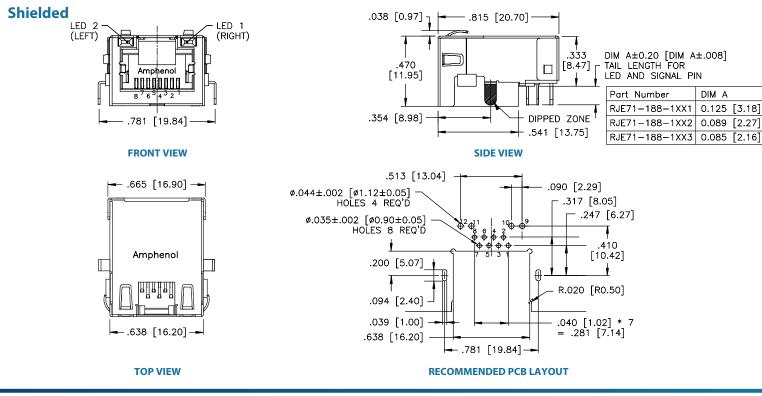






Single Port

RJE7B-188-1XXX



Notes

RIGHT ANGLED, STANDARD PROFILE, WITH LEDs

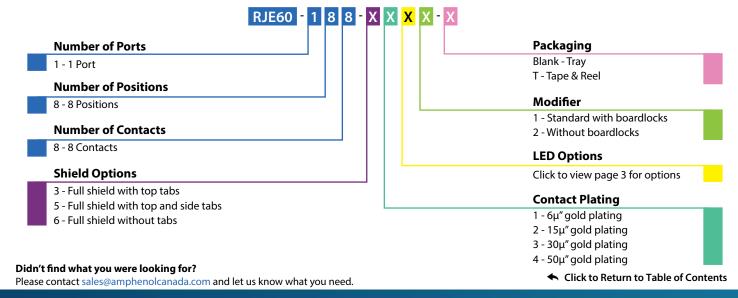
The RJE60 series of modular jacks meet CAT 6A performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding is available for increased EMI performance and LEDs for link activity and network speed verification.

SPECIFICATIONS

Material			Electrical	
Insulator:	. .	thermoplastic;	Contact Resistance	20 mΩ max.
	•	ith UL 94V-0; Black	Insulation resistance:	500 M Ω min. at 500V DC for 2 mins may
Contacts:	•	ronze hard temper with gold thickness ", 15µ", 30µ", 50µ") over 50µ" min. nickel on	Current Rating:	1.25 Amps per contact
		ting area; 100 μ " min. matte tin plating on	Voltage Rating:	125 Volts AC
solder tails			DWV:	1000 VAC, 60 Hz. 1 min.
Shield: LED:	Stainless ste	eel with tin dipped tails on LED tail	LED Forward DC Current:	20mA typical
Mechanical		LED Forward Voltage	1.9 Volts max. at 2mA (for single colours 2.6 Volts max. at 20mA (for bicolours)	
Insertion Force:		5 lbs max.	LED Reverse Voltage:	5 Volts min.
Pull Retention Force:		20 lbs min.	LED Light Intensity:	0.4 to 1.5 mcd min. at 2mA (for single colours) 0.5 mcd min. at 2mA (for bicolours)
Durability:		750 mating & unmating cycles		
Recommended Soldering Temperature:		Wave soldering peaked at 260°C for 10 secs max. for one cycle with an LED defect rate of no more than 100ppm	LED Wave Length:	Yellow: 587 \pm 7 nm measured at 20mA Green: 565 \pm 6 nm measured at 20mA Red: 625 \pm 5 nm measured at 20mA
Operating Temperature:		-55°C to + 85°C		

*Note: Multiple exposure not recommended; IR Reflow compatible version also available; Consult factory for details

ORDERING INFORMATION





CAT 6A

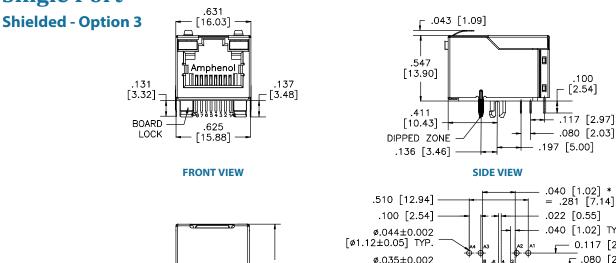
CAT 6A, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

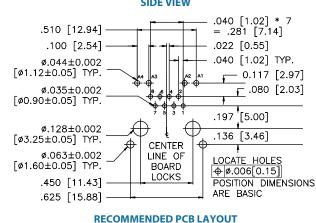
CAT 6A

RJE60

CAT 6A, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

Single Port

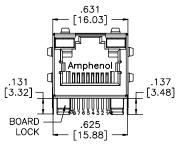




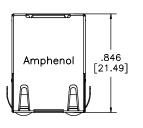
Amphenol .846 [21.49]

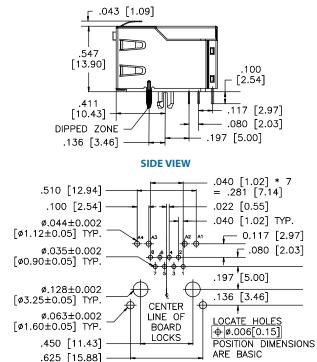
TOP VIEW

Shielded - Option 5



FRONT VIEW





TOP VIEW

RECOMMENDED PCB LAYOUT

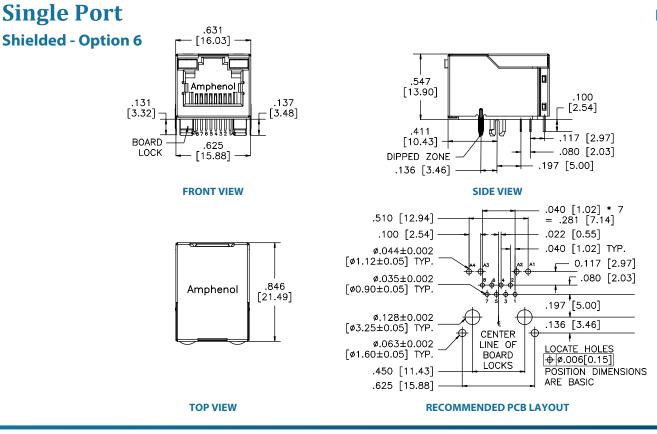
RJE60-188-3XX1

RJE60-188-5XX1

RJE60

CAT 6A, RIGHT ANGLE, STANDARD PROFILE, WITH LEDS

RJE60-188-6XX1



Notes



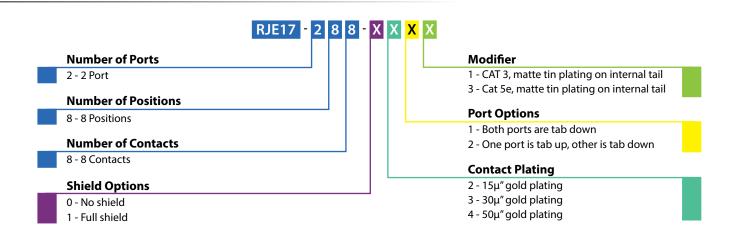
RJ45 COUPLER

The RJE17 coupler provides connections through barriers such as equipment covers and panels. They are locked into place with a panel latch for secure mounting. Available in CAT 3 and CAT 5e performance. The added shielding provides optional EMI protection.

SPECIFICATIONS

Material			Mechanical	
Insulator:	Engineering thermoplastic; Complies with UL 94V-0; Black		Insertion Force:	5 lbs max.
-			Pull Retention Force:	20 lbs min.
Contacts:	Phosphor bronze hard temper with several gold thick- ness options over 50µ" min. nickel on contact mating area (refer to drawing below) Stainless steel with tin dipped tails		Durability:	750 mating & unmating cycles
			Operating Temperature:	-40°C to + 70°C
Shield:			Operating Temperature:	-40°C to + 85°C
Electrical				
Contact Resis	tance	20 mΩ max.		
Insulation resistance:		500 $M\Omega$ min. at 500V DC for 2 mins max.		
Current Rating:		1.25 Amps per contact		
Voltage Rating:		125 Volts AC		
DWV:		1000 VAC, 60 Hz. 1 min.		

ORDERING INFORMATION



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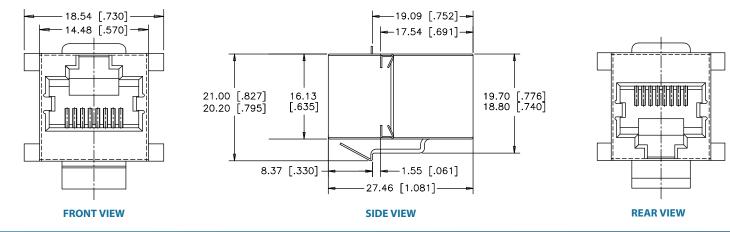


RJE17 RJ45 COUPLER

Single Port

RJE17-288-1X21



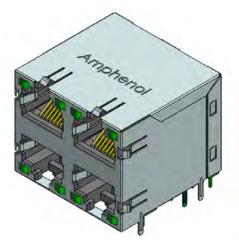


Notes

STACKED

Right Angle

RJSDE



RJSAR

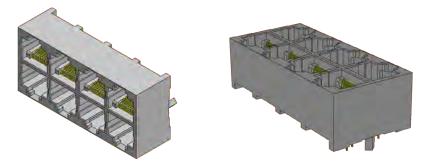


RJSFE



Vertical

RJE4N



HIGH PERFORMANCE

-

CAT 5e

RJE1A



RJE2A





RJE72

CAT 6

RJE1B



CAT 6A

RJE1C



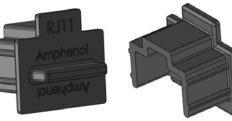
RJE50



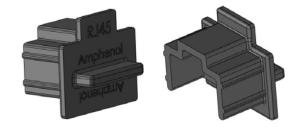
DUST COVERS & OTHERS

Dust Covers

FRJ-2611



FRJ-2411



Other

RJE1L





Amphenol ICC

605 Milner Avenue Toronto, Ontario Canada, M1B 5X6

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