



## Quick Reference Guide

### RJ *point five* Connector System

The RJ point five connector system is the next generation Ethernet link, offering a higher density cabling solution for Original Equipment Manufacturers (OEMs) who desire a lower cost per port while maintaining the convenience of a single connector per channel. The port spacing is on a 7mm centerline, occupying half the space than that of traditional RJ45 Ethernet link. In addition to the high density receptacle, Tyco Electronics offers the mating cable assembly, as well as cable management solutions for single box and rack configurations. The receptacle and cable assembly were redesigned to eliminate the undesirable RJ45 split pair configuration, resulting in heightened electrical performance. Additionally, the latching feature incorporates an easy-to-use lanyard that will facilitate up to 96 ports on a single line card. Due to the density on the receptacle face, the light from the LEDs is transferred out through the cable boot, bringing the port indicator light closer to the end user.

#### FEATURES AND BENEFITS

- Approximately double the density offered over the standard RJ45 Ethernet link
- Same footprint to support both integrated magnetic and non-integrated solutions
- Cable assemblies capable of field termination
- Cable management features available from Tyco Electronics for higher density configurations
- Product family will support Gigabit speeds of Cat5e UTP cable, and roadmap supports PoE+ and 10Gig over Cat6a
- Receptacle is a modular design to allow for easy and rapid deployment of product extensions

### Product Applications

- High density Ethernet switching/routing products
- Data center switching applications:
  - Top of rack
  - End of row
  - Mid-row
- Server I/O applications
- Wiring closet switching products

### Mechanical

- Port center-on-center spacing at 7mm for Cat5e cabling
- Overall height is 25.25mm
- High density cabling consists of ergonomically friendly lanyard for easy extraction
- Port indicator LEDs conveniently located on the cable boot to facilitate easy viewing

### Electrical/Optical

#### Product meets category 5e performance for 10/100/1000BASE-T applications

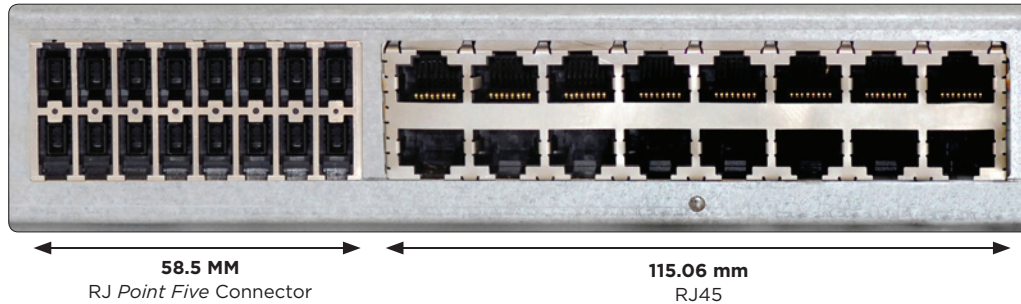
- Insertion loss 0.4 dB maximum at 100 MHz
- Return loss 20 dB minimum at 100 MHz
- NEXT loss 43 dB minimum at 100 MHz
- FEXT loss 35.1 dB minimum at 100 MHz

#### Magnetic product performs for 10/100/1000BASE-T applications

- Insertion loss 1.5 dB maximum at 100 MHz
- Return loss 10 dB minimum at 100 MHz
- Crosstalk 31 dB minimum at 100 MHz
- Common Mode Rejection Ratio 17 dB minimum at 100 MHz
- Isolation voltage complies with IEEE 802.3

### RJ point five Connector Comparison to RJ45\*

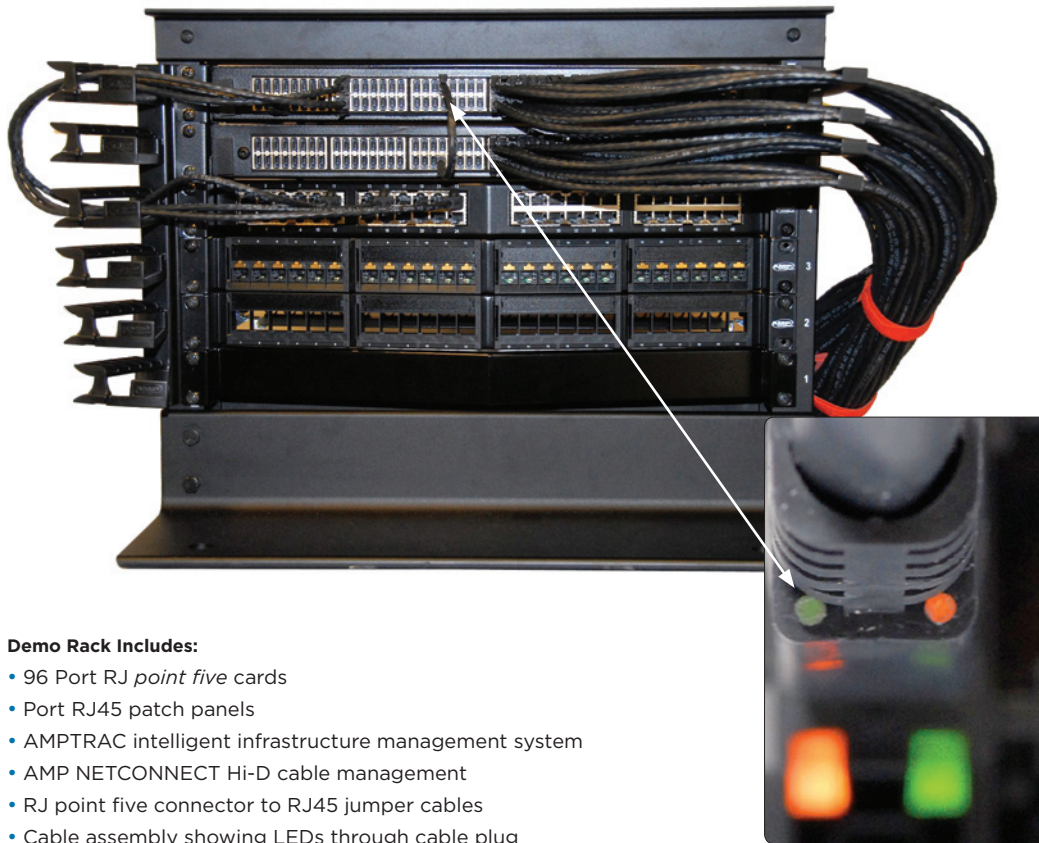
\*Drawing not shown to scale



### RJ point five Board Mount Receptacles and Plug Kit

Part Number	Description	Integrated Magnetics	LEDs	Customer Drawings	Product Available
				Customer Drawings	Product Available
2007669-1	2x8 Receptacle	Yes	Yes (R/G)	Yes	Yes
2007669-2	2x8 Receptacle	Yes	Yes (Y/G)	Yes	Yes
2057133-1	2x8 Receptacle	No	Yes (R/G)	Yes	Yes
2057133-2	2x8 Receptacle	No	Yes (Y/G)	Yes	Yes
2007311-1	2x6 Receptacle	Yes	Yes (R/G)	Yes	No
2007311-2	2x6 Receptacle	Yes	Yes (Y/G)	Yes	No
2057132-1	2x6 Receptacle	No	Yes (R/G)	Yes	No
2057132-2	2x6 Receptacle	No	Yes (Y/G)	Yes	No
2057004-1	2x12 Receptacle	Yes	Yes (R/G)	Yes	Yes
2057004-2	2x12 Receptacle	Yes	Yes (Y/G)	Yes	Yes
2057134-1	2x12 Receptacle	No	Yes (R/G)	Yes	Yes
2057134-2	2x12 Receptacle	No	Yes (Y/G)	Yes	Yes
2057014-1	2x1 Receptacle	Yes	Yes (R/G)	Yes	No
2057014-2	2x1 Receptacle	Yes	Yes (Y/G)	Yes	No
2057131-1	2x1 Receptacle	No	Yes (R/G)	Yes	No
2057131-2	2x1 Receptacle	No	Yes (R/G)	Yes	No
2007312-1	Plug Kit	--	--	Yes	Yes

## RJ point five Connector Demo Rack



**Demo Rack Includes:**

- 96 Port RJ point five cards
- Port RJ45 patch panels
- AMPTRAC intelligent infrastructure management system
- AMP NETCONNECT Hi-D cable management
- RJ point five connector to RJ45 jumper cables
- Cable assembly showing LEDs through cable plug

### RJ point five to RJ point five Cable Assembly

Part Number	Cable Length	Status
2100356-1	0.5 meters	Available
2100356-2	1.0 meters	Available
2100356-3	1.5 meters	Available
2100356-4	2.0 meters	Available
2100356-5	2.5 meters	Available
2100356-6	3.0 meters	Available
2100356-7	4.0 meters	Available
2100356-8	5.0 meters	Available
2100356-9	7.5 meters	Available
1-2100356-0	10.0 meters	Available
1-2100356-1	12.5 meters	Available
1-2100356-2	15.0 meters	Available

### RJ point five to RJ45 Cable Assembly

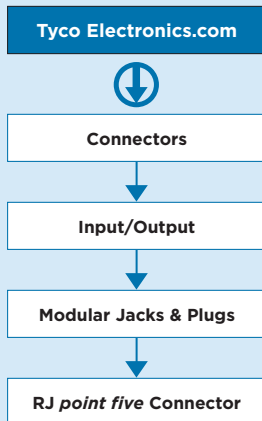
Part Number	Cable Length	Status
2100357-1	0.5 meters	Available
2100357-2	1.0 meters	Available
2100357-3	1.5 meters	Available
2100357-4	2.0 meters	Available
2100357-5	2.5 meters	Available
2100357-6	3.0 meters	Available
2100357-7	4.0 meters	Available
2100357-8	5.0 meters	Available
2100357-9	7.5 meters	Available
1-2100357-0	10.0 meters	Available
1-2100357-1	12.5 meters	Available
1-2100357-2	15.0 meters	Available

### RJ point five Connector Documentation

Part Number	Description
108-2341	RJ point five Product Specifications (Design Objectives)
114-13228	RJ point five Receptacle Application Sheet
114-13235	RJ point five Plug Kit Application Sheet
408-10243	Cable Assembly Termination Instruction Sheet

**e-Catalog :**  
[www.tycoelectronics.com/products/rjpointfive](http://www.tycoelectronics.com/products/rjpointfive)

Breakdown from main page :



#### FOR MORE INFORMATION

##### Technical Support

Internet:	<a href="http://www.tycoelectronics.com/help">www.tycoelectronics.com/help</a>
USA:	+1 (800) 522-6752
Canada:	+1 (905) 470-4425
Mexico & Central America:	+52(0) 55-1106-0814
South America:	+55 (0) 11-2103-6000
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 8706-080208
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)

**Tyco Electronics Corporation**, Harrisburg, PA

**tycoelectronics.com**

© 2009 Tyco Electronics Corporation. All Rights Reserved.  
3-1773454-0 1.5M CIS FP 08/2009

AMP NETCONNECT, AMPTRAC RJ *point five*, TE (logo) and Tyco Electronics are trademarks of the Tyco Electronics group of companies and its licensors.

Other products, logos, and Company names mentioned herein may be trademarks of their respective owners.

While Tyco Electronics has made every reasonable effort to ensure the accuracy of the information in this catalog, Tyco Electronics does not guarantee that it is error-free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information contained herein at any time without notice. Tyco Electronics expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult Tyco Electronics for the latest dimensions and design specifications.



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А