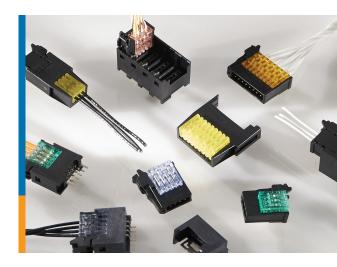
REMOTE INPUT/ OUTPUT TERMINAL SYSTEM (RITS) CONNECTORS



The e-CON standard was developed in Japan in 2001 by a group of Japanese manufacturers in order to standardize connections from sensors to terminals. This standard is not under control of any standard organizations. Without the standard, each manufacturer had specified different connectors for terminations of sensors to Programmable Logic Controllers (PLCs), and end users had to prepare many different connectors and different tools. In order to improve this situation and create a user-friendly environment, TE Connectivity has offered AMP RITS connectors as the standard interface connector for sensors. The 4-position RITS connector is approved as the industry standard connector.

Key Benefits

- · Termination by generic tools
- Small 2.0 mm [.079] centerline connectors
- Two contact points structure provides for high contact reliability
- Housing colors indicate applicable wire range
- Component Recognized by UL to US and Canadian Standards, File No. E28476

Electrical

Current rating: Max. 3 AVoltage rating: 32 V DC

Mechanical

Applicable wire range: 0.1 to 0.5 mm2 [27 to 20 AWG]
 Outside Diameter: 0.6 to 1.6 mm [.02 - .06]

Product Specifications

 Product specification: 108-5765
 Instruction sheets: 411-78014 411-78162

Materials

• Housing: PBT (UL 94V-0)/Polycarbonate (UL 94V-0)/

• Contact: Phosphor Bronze Platings -

0.2 ųm [.000007] gold plated underplated 1.27 ųm [.000050] Ni

• LCP (SMT Products)

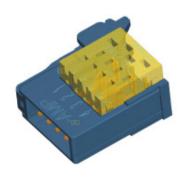


Locking Configuration

The new locking lever design secures a wire-towire connection and can be pulled through a partially jammed wiring duct. When mated, a very clear click-sound will be heard. It will help prevent accidental half-mating.







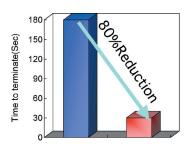
Chisel Press Contact

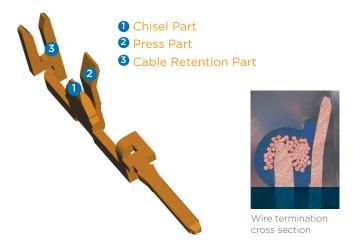
This new technology has three major features: Chisel, Press and Retention.

The chisel shaped contact pierces into wire to secure a much larger contact area. The press function will keep the contact pressure applied. The retention mechanism retains the wire at a higher retention force than Insulation Displacement Contact (IDC) connectors. Chisel Press Contact is the new wire termination technology to be applied to many kinds of wire from solid to multi-stranded commonly used in Factory Automation (FA) industries.

Cost Reduction

RITS Connectors offer 80% cost reduction of operation compared to conventional crimping connectors.





Easy Termination

Easier terminations made with lower applied cost and improved quality.

In the manufacturing process of FA equipment, electrical connections by crimping are commonly seen in the assembly lines. RITS (Remote I/O Terminal System) connectors offer an easy and efficient connection method as well as total cost reduction with higher electrical reliability without special skill to perform the work.



Part Number: 1729940-1 Instruction Sheet: 411-78162 Please refer to Instruction Sheet 411-78014 for further detail.

STEP 1



Insert each wire into Housing.

Pliers can only be used for 3- and
4-position RITS connectors.

STEP 2



Squeeze housing together with pliers or press the housing together with a special tool.

Please use the special tool for larger than 5-position RITS connectors.

The way to connect wire is quite easy: Insert wire into a housing and pinch the housing with a generic tool such as pliers. TE Connectivity also provides a special tool for RITS termination at a more economical price than a crimp-type tool due to its simple function.

Product Features

	PLUG	HDR	JCT	Вох	Socket
	Connectors	Connectors	(2D)	(4D)	Connectors
PRODUCTS					
FEATURES	PLUG Connectors for wire termination Consists of HOLD HSG and BODY HSG HSG colors indicate applicable wire range	Connectors for PCB Stackable mounting is possible Single row and 4row types available Right Angle type available with SMT Type Prevent from miss-direction-inserting	 For Junction Box. Plugs can be mated on both sides Panel type version also available 	Basic same feature as 2D type Four circuits are made common respectively.	 Socket connectors for wire termination Plug can be mated. Hold housing color same as Plug connectors

Various Product Line-up

RITS connectors are available for wire-to-wire type and PCB mount type from 3- through 8-positions.

	PLUG Connectors							Hea PCB N		Junction Box		Socket Connector			
O/S Di	RangeŁ ameter im	0.6-0.9	0.9-1.0	1.0-1.15	1.15-1.35	1.35-1.6	Vert	tical	Horizontal	20	45	0.9-1.0		1.15-1.35	1.35-1.6
HSG	Color	Orange	Red	Yellow	Blue	Green	single row	4 row	single row	2D	2D 4D	Red	Yellow	Blue	Green
	3P	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	4P*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
(POS)	5P	*	*	*	*	*	*	_	_	_	_	_	-	_	_
(P0	6P	*	*	*	*	*	*	_	_	*	_	*	*	*	*
	7P	*	*	*	*	*	*	_	_	_	_	_	_	_	_
	8P	*	*	*	*	*	*	_	_	*	_	*	*	*	*

- * Available
- No Plan
- * e-CON Conform

Applied cable

Applicable cable is designated by its outside diameter. Please choose the appropriate connector from the outside diameter of cable to be used with.

Wire Range (mm ^{2*})		0.1-0.5 mm2 [27-20 AWG]										
Outside Diameter	0.6 - 0.9 [.024035]	0.9 - 1.0 [.035039]	1.0 - 1.15 [.039045]	1.15 - 1.35 [.045053]	1.35 - 1.60 [.053063]							
Plug HSG Color												
Part Number	3-1473562-X	1-1473562-X	1473562-X	2-1473562-X	4-1473562-X							
Socket HSG Color												
Part Number		1-1746741-X	1746741-X	2-1746741-X	4-1746741-X							
Insulator Material			PVC/PE									

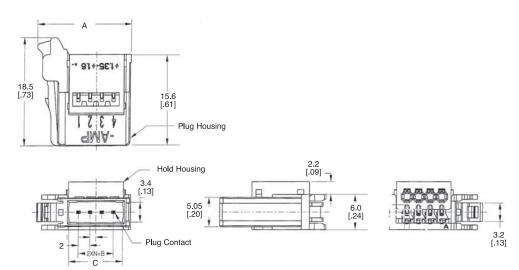
How to choose the appropriate connector

Please find the wire diameter in the above table and locate the appropriate connector part number. All wire needs to be tested for termination with the connector. Further detailed information is available from Technical Support.

*When 0.08 mm2 [29 AWG] wire is to be used, please contact Technical Support. Note: All part numbers are RoHS Compliant.

Plug Connectors



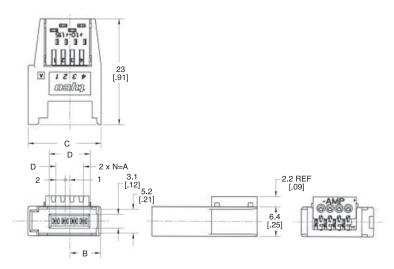


		Dimen	sions		Part Number					
No. of		D				Ho	old Housing Co	or		
Positions	N	Α	В	С	Yellow					
3	2 [.08]	14.1 [.56]	4 [.16]	7.2 [.28]	1473562-3	1-1473562-3	2-1473562-3	3-1473562-3	4-1473562-3	
4	3 [.12]	16.1 [.63]	6 [.24]	9.2 [.36]	1473562-4	1-1473562-4	2-1473562-4	3-1473562-4	4-1473562-4	
5*	5 [.20]	20.1 [.79]	10 [.39]	13.2 [.52]	1473562-5	1-1473562-5	2-1473562-5	3-1473562-5	4-1473562-5	
6	5 [.20]	20.1 [.79]	10 [.39]	13.2 [.52]	1473562-6	1-1473562-6	2-1473562-6	3-1473562-6	4-1473562-6	
7*	7 [.28]	24.1 [.95]	14 [.55]	17.2 [.68]	1473562-7	1-1473562-7	2-1473562-7	3-1473562-7	4-1473562-7	
8	7 [.28]	24.1 [.95]	14 [55]	17.2 [.68]	1473562-8	1-1473562-8	2-1473562-8	3-1473562-8	4-1473562-8	

^{*}The 5-position and the 7-position assemblies do not have contacts at the circuit number 6 and 8, respectively. Note: All part numbers are RoHS Compliant.

Socket Connectors

x-1746741-x T -3 to -8 shows No. of Positions Shows wire range: Blank- Yellow, 1- Red, 2- Blue, 4- Green

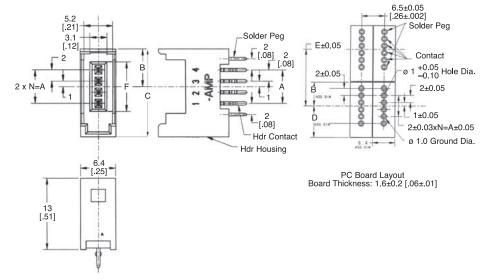


No. of			Dimensions			Part Number					
Positions						Hold Housing Color					
1 031110113	N	А	В	C D		Yellow	Red	Blue	Green		
3	2 [.08]	4 [.16]	5.75 [.23]	13.8 [.54]	6.9 [.27]	1746741-3	1-1746741-3	2-1746741-3	4-1746741-3		
4	3 [.12]	6 [.24]	6.75 [.27]	15.8 [.62]	8.9 [.35]	1746741-4	1-1746741-4	2-1746741-4	4-1746741-4		
6	5 [.20]	10 [.39]	8.75 [.35]	19.8 [.78]	12.9 [.51]	1746741-6	1-1746741-6	2-1746741-6	4-1746741-6		
8	7 [.28]	14 [.55]	10.75 [.42]	23.8 [.94]	16.9 [.67]	1746741-8	1-1746741-8	2-1746741-8	4-1746741-8		

Note: All part numbers are RoHS Compliant.

Board Mount Headers 1-Row Vertical Type

1473565-x T -3 to -8 shows No. of Positions



No. of		Part						
Positions	N	Α	В	С	D	Е	F	Number
3	2 [.08]	4 [.16]	5.75 [.23]	13.8 [.54]	8.05 [.32]	14 [.55]	6.9 [.27]	1473565-3
4	3 [.12]	6 [.24]	6.75 [.27]	15.8 [.62]	9.05 [.36]	16 [.63]	8.9 [.35]	1473565-4
5*	5 [.20]	8 [.31]	8.75 [.35]	19.8 [.78]	11.05 [.44]	20 [.79]	12.9 [.51]	1473565-5
6	5 [.20]	10 [.39]	8.75 [.35]	19.8 [.78]	11.05 [.44]	20 [.79]	12.9 [.51]	1473565-6
7*	7 [.28]	12 [.47]	10.75 [.42]	23.8 [.94]	13.05 [.51]	24 [.94]	16.9 [.67]	1473565-7
8	7 [.28]	14 [.55]	10.75 [.42]	23.8 [.94]	13.05 [.51]	24 [.94]	16.9 [.67]	1473565-8

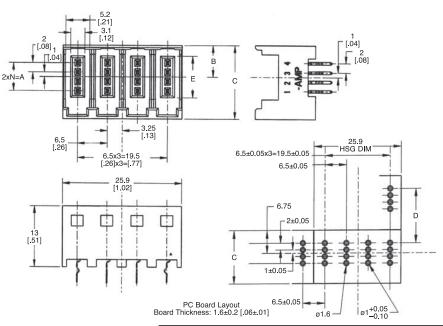
^{*}The 5-position and the 7-position assemblies do not have contacts at the circuit number 6 and 8, respectively. Note: All part numbers are RoHS Compliant.

Board Mount Headers 4-Row Vertical Type

1473567-<u>x</u>

-3 to -4 shows No. of Positions

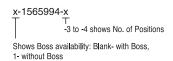
Drawing shows 4-position. As to the 3-position, please confirm with the 3-position drawing.

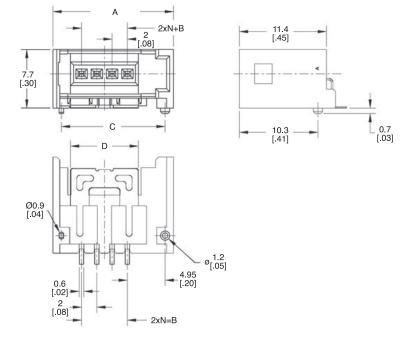


No. of			Part				
Positions	N	Α	В	С	D	Е	Number
3	2 [.08]	4 [.16]	5.75 [.23]	13.8 [.54]	14 [.55]	6.9 [.27]	1473567-3
4	3 [.12]	6 [.24]	6.75 [.27]	15.8 [.62]	16 [.63]	8.9 [.35]	1473567-4

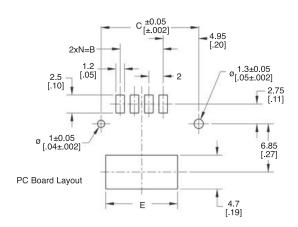
Note: All part numbers are RoHS Compliant.

Board Mount Headers SMT Horizontal Type





Drawing and PC board layout shows Positioning Boss Holes. Dimensions are for reference only.

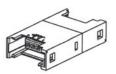


No. of			Dimer	nsions			Part N	umber
Positions	N	Α	В	С	D	Е	with Boss	without Boss
3	2 [.08]	13.8 [.54]	4 [.16]	11.6 [.46]	6.9 [.27]	8 [.31]	1565994-3	1-1565994-3
4	3 [.12]	15.8 [.62]	6 [.24]	13.6 [.54]	8.9 [.35]	10 [.39]	1565994-4	1-1565994-4

Packaged on embossed tapes suitable for automated application. Note: All part numbers are RoHS Compliant.

Junction Box (2D Type)



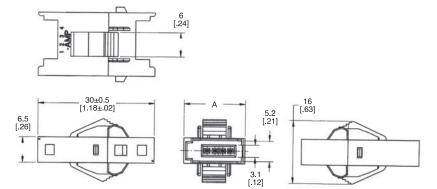


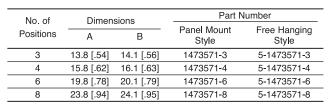
Free Hanging Style



12.85±0.05 [.51±.002] 8.9±0.05 [.35±0.05] 8±0.05 [.32±.002]

Panel Layout Panel Thickness 1.0 to 2.0 [.04 to .08]





Note: All part numbers are RoHS Compliant.

Junction Box (4D Type)

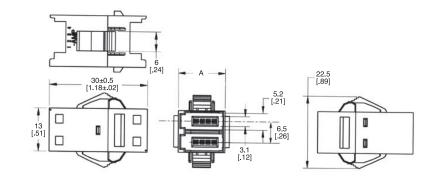
x-1473574-x -3 to -4 shows No. of Position Shows connector style: Blank- Panel Mount Style, 5: Free Hanging Style

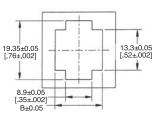


Free Hanging Style



Panel Mount Style



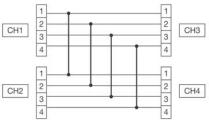


Panel Layout Panel Thickness 1.0 to 2.0 [.04 to .08]

Note: The Junction Box with 4 connector interfaces enables 3 outputs by 1 input. 4 interfaces are commoned as per the drawing.

No. of	Dimen:	sions	Part N	lumber		
Positions	A	В	Panel Mount Free Hanging Style Style			
3	13.8 [.54]	14.1 [.56]	1473574-3	5-1473574-3		
4	15.8 [.62]	16.1 [.63]	1473574-4	5-1473574-4		

Note: All part numbers are RoHS Compliant.



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1654885 JN 1/16

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