Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

Environmental, shielded, reverse-bayonet connectors

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Super ITS 301: crimp contact connectors

Super ITS 301, Cat 5e connectors provide easy crimp-and-poke wire termination with industry-standard wire contacts and tools. Super ITS 301 delivers ruggedized high-speed I/O performance for extreme environments and supports 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Plug connectors use RJ45 plugs while receptacles use RJ45 jacks through the mating interface. Size 22 crimp contacts (M39029/58-360) supplied loose. Rugged reverse-bayonet mating provides reliable intermateability while the locking three pin bayonet coupler prevents demating under high shock and high vibration conditions. Accessory thread (1-20 UNEF) accesory thread for attachment of backshells and adapters.

Performance Specifications

Material and Finish	
Material/Finish	See How to Order table
Crimp Contacts	Copper alloy, gold plated
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel

Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.

Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order

Sample Part Number:		ITS 301	030	G	18	5E	1	F7
Series	**ITS 301** = for use with crimp- contact terminated wires							
Shell Style	See shell style table							
Insert-to-Shell Grounding (Receptacle Only)	**G** = Recommended for use with shielded cables (omit for plug styles)							
Shell Size	**18**							
Cable Category	**5E** = Cat 5E; for Cat 6A applications consult factory							
RJ45 Orientation	**1**, **2**, **3** or **4**							
Material / Finish	Omit for aluminum / cadmium olive drab (G3) **F7** = Aluminum / black zinc nickel **F11** = Aluminum / electroless nickel							

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4

| Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug
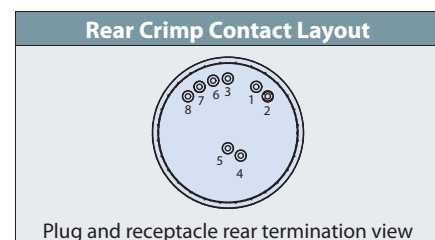
Rear Crimp Contact Layout

Plug and receptacle rear termination view

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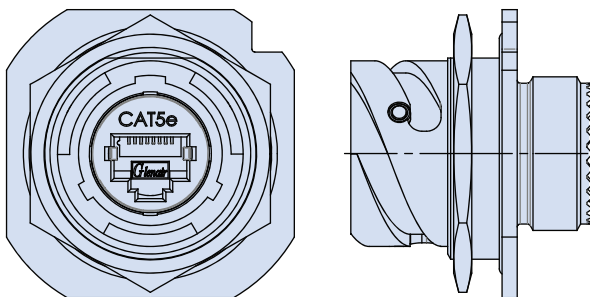
Glenair

SHELL STYLE 06: PLUG WITH ACCESSORY THREADS
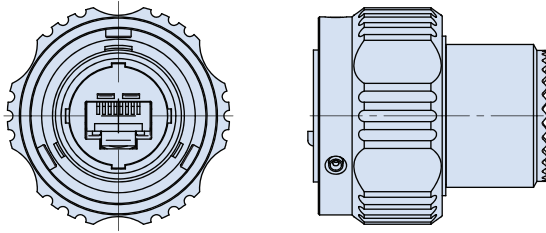
Sample Part Number						
ITS301	**06**		**18**	**5E**	**1**	**F7**
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position **1, 2, 3, 4**	Material / Finish **G3** (omit) **FG**, **F7**, **F11**

SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH ACCESSORY THREADS

Sample Part Number						
ITS301	**070**		**18**	**5E**	**1**	**F7**
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position **1, 2, 3, 4**	Material / Finish **G3** (omit) **FG**, **F7**, **F11**

SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS

Sample Part Number						
ITS301	**01**		**18**	**5E**	**1**	**F7**
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position **1, 2, 3, 4**	Material / Finish **G3** (omit) **FG**, **F7**, **F11**

SHELL STYLE 030: REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH THROUGH-MOUNT HOLES AND ACCESSORY THREADS
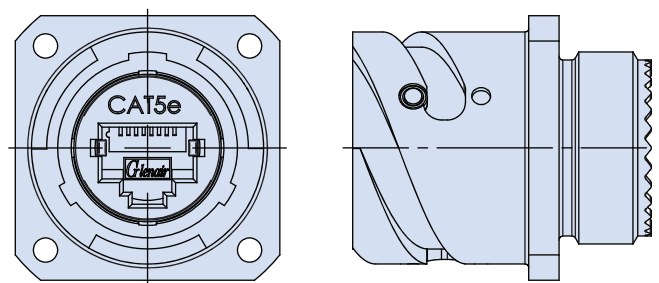
Sample Part Number						
ITS301	**030**		**18**	**5E**	**1**	**F7**
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

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