

Four Position Data Connector for the IEEE 802.5 Local Area Network

Kit Description: Connector (top and bottom cover assemblies), stuffer box, ferrule, dust cover, latch lock and strain relief bushings for 45, 90 and 180 degree cable exit

Cableless Balun Kit: A four position cableless balun kit is available which allows the customer to assemble his own electronic components which are required to convert the balanced twisted-pair cable to unbalanced coaxial cables. This kit contains a single BNC jack receptacle but will accept a second BNC receptacle which can be ordered separately to provide the dual port version.

Material for A9105 and A9106: • Stuffer Cap: Clear polycarbonate • AMP-BARREL Terminal: Tin plated phosphor bronze • Label: Adhesive backed polyester • Contacts: Nickel plated high strength copper alloy having selective gold plating in contact area and selective tin plating in AMP-BARREL terminal area • Housing: Black thermoplastic, 94V-0 rated • Conductor Type: Solid or stranded having .048 maximum insulation O.D.

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each		Tyco Electronics Part No.
				1	25	
Category 3 Modular Telephone Jack						
1	6	IBM	A4004-ND	5.20	4.48	553983-1
2	8	IBM	A4005-ND	5.90	5.08	554546-1
1	6	Commercial	A9105-ND	5.58	4.80	554171-1
2	8	Commercial	A9106-ND	5.80	4.99	554578-1
Category 3 Panel Mount Coupler — RoHS Compliant						
3	6	Right Angle	A9107-ND	4.50	3.60	555049-1
	8	Right Angle	A9108-ND	4.50	3.60	555051-1
4	6	In-Line	A9109-ND	4.43	3.54	555050-1
	8	In-Line	A9110-ND	5.00	4.00	555052-1
RS-232 to Modular Jack — RoHS Compliant						
5	6	DB25P to RJ11 (6-6)	A35055-ND	14.86	13.01	748100-2
	8	DB25P to RJ45 (8-8)	A33704-ND	23.10	19.25	747772-3
	8	DB25S to RJ45 (8-8)	A35053-ND	15.10	13.22	5-747868-1

◆ RoHS Compliant

Fig. 1 A4004
Three Pair Modular Jack (6 Position)
IBM Equivalent P/N: 83100575

Fig. 2 A4005
Four Pair Modular Jack (8 Position)
IBM Equivalent P/N: 6091030

Fig. 3
Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

Fig. 4
Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

Fig. 5
These versatile connectors convert a 25 position plug or receptacle interface to modular jack interface. Transition Connectors are used most often with data, data-over-voice and on the dropside or output device side of mainframes, personal or business computers.

A

Industrial Ethernet Connectors



Features: • Threaded outer connection • Environmental sealing (IP67 rated) • Vibration resistance • Secure, robust connections • Provides for a reliable performance in electrically noisy conditions found on most factory floors • Compatible with Category 5e cable • Fully interchangeable with unshielded product

Dimensions in Inches (mm)

Fig. 1

Fig. 2 NEW!

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10 NEW!

Fig.	Description	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
			1	25	100	
Plug						
1	Field-Attachable, 0.1-0.26" (2.5-6.5mm) Acceptable Cable Diameter	A30691-ND	18.66	17.29	13.38	1546440-1
2	IP20 RJ-45, 4 Position, 180 Degrees	A98811-ND	17.49	15.84	11.22	1903526-1
	IP20 RJ-45, 8 Position, 180 Degrees	A98812-ND	18.26	16.54	11.72	1903527-1
Receptacles						
3	Direct PCB Mount 8 Pin, Front-Coupling Through-Hole Receptacle	A34351-ND	29.01	26.89	20.81	1-1546405-1
4	Receptacle with Standard PC Board (10 Base-T) with Standard PC Board and 12" (30cm) of Cable (568A) with Standard PC Board with 12" (30cm) of Cable (568B) with Standard PC Board with 12" (30cm) of Cable	A34355-ND	32.04	29.70	22.98	1-1546409-1
		A34356-ND	36.22	33.58	25.98	1-1546410-1
		A34357-ND	36.22	33.58	25.98	1-1546411-1
		A34358-ND	48.26	44.73	34.61	1-1546412-1
5	RJ-45 Bulkhead Passthrough with Backside RJ-45 Jack	A33706-ND	32.41	30.04	23.25	1546413-3
	RJ-45 Bulkhead Passthrough with 12" (30cm) of Patch Cord	A33707-ND	36.31	33.65	26.04	1546414-4
	RJ-11 Bulkhead Passthrough with Backside RJ-11 Jack	A34359-ND	34.71	32.17	24.89	1-1546415-1
Female-to-Female Adapters						
6	Female-to-Female RJ45 Jack-Jack	A30690-ND	66.75	61.87	47.87	1546574-1
Double-Ended Cord Set						
7	1 Meter (3.3') Solid Core Cable, Industrial (both ends)	A34360-ND	74.08	64.82	55.56	1-1546451-1
	5 Meter (16.4') Solid Core Cable, Industrial (both ends)	A34361-ND	100.20	87.68	75.15	1-1546451-2
	10 Meter (32.8') Solid Core Cable, Industrial (both ends)	A34362-ND	145.80	127.58	109.35	1-1546451-3
	2 Meter (6.6') Solid Core Cable, Industrial/Commercial Ends	A34363-ND	95.74	83.78	71.81	1-1546451-4
	2 Meter (6.6') Stranded Cable, Industrial (both ends)	A34366-ND	89.32	78.16	66.99	1-1546453-1
5 Meter (16.4') Stranded Cable, Industrial (both ends)	A34367-ND	100.20	87.68	75.15	1-1546453-2	
Caps						
—	Connector Closure Cap IP67 with Lanyard	A34352-ND	15.23	14.12	10.93	1-1546406-1
	Connector Receptacle Cap IP65	A34353-ND	10.43	9.68	7.49	1-1546407-1
	Connector Plug Cap IP67 with Lanyard	A34354-ND	18.43	17.09	13.22	1-1546408-1
Tool						
—	Punchdown, with 110 Blade	A30681-ND	49.50	—	—	1738607-1
Plug Kit						
8	RJ-45 Solid Plug Kit	A31778-ND	10.80	10.02	7.75	1738607-1
	RJ-45 Stranded Plug Kit	A31779-ND	10.80	10.02	7.75	1738607-2
	RJ-45 Shielded CPC, Solid Plug Kit	A98813-ND	10.15	9.41	7.28	1546907-1
	RJ-45 Shielded CPC, Stranded Plug Kit	A98814-ND	10.29	9.54	7.38	1546907-2
	RJ-45 Unshielded CPC, Solid Plug Kit	A98820-ND	9.31	8.63	6.68	1546876-1
	RJ-45 Unshielded CPC, Stranded Plug Kit	A98815-ND	9.31	8.63	6.68	1546876-2
Receptacle Kit						
9	RJ-45 Receptacle Kit	A31781-ND	21.89	20.30	15.70	1738601-1
	RJ-45 Receptacle Cover	A31780-ND	8.61	7.98	6.18	1738611-1
10	RJ-45 Shielded CPC, Receptacle Kit, Passthrough	A98816-ND	31.14	28.87	22.33	1986172-1
	RJ-45 Shielded CPC, Receptacle Kit	A98817-ND	17.84	16.53	12.79	1546908-1
	RJ-45 Unshielded CPC, Receptacle Kit, Passthrough	A98818-ND	22.41	20.77	16.07	1776186-1
	RJ-45 Unshielded CPC, Receptacle Kit	A98819-ND	18.61	17.26	13.35	1546877-1

† Mates with Figure 9 ‡ Mates with Figure 10 § NEW!

IP67 Sealed Industrial Ethernet Circular RJ45 Connector System



Electrical Specifications: • Meets EIA/TIA-568-B.2 Cat. 5e Specification • IR: 500MΩ minimum @ 100 VDC • DWV: 1000 VDC/60s Contact to Contact • DWV: 1500 VDC/60s Contact to Metal Shell • Contact Resistance: 20mΩ maximum • Current Rating: 1.5A maximum • Working Voltage: 100 V • Operating Temperature: -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each					Conec Part No.
			1	10	100	500	1,000	
1	Shielded 8 Position Cat. 5e RJ45 Plug, Load Bar and Plug Housing Assembly	626-1294-ND	6.50	4.81	3.98	3.64	3.51	17-10001
2	Receptacle Assembly, Panel Gasket, Panel Nut and Protective Cover Assembly	626-1293-ND	15.10	12.84	10.76	10.01	9.63	17-10000
—	Tool Termination	626-1295-ND	37.97	31.16	27.26	24.83	24.34	360X30029X

Fig. 1

Fig. 2

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