

PRODUCT CATALOG

Connectivity and Structured Cabling



Emerson Network Power Connectivity Solutions has a wide range of cable assemblies and connectors suited for RF, Microwave and Fiber Optic signal transmission. Connectivity Solutions is a vertically integrated supplier of custom, fixed length and semi-rigid cable assemblies from DC to 50 GHz. Our product lines deliver custom-engineered products and solutions to satisfy the most demanding and complex requirements.

AIM-Cambridge Connectivity Solutions



AIM-Cambridge has a universal line of products that offer cost effective, high quality solutions for connectivity. Our connectors are available in BNC, Type N, F Type, RCA, UHF, Mini-UHF, TNC, D-Sub and Modular Plugs for Data/Telecom applications. In addition, we stock a wide variety of cables for A/V, SATV, CATV, computer and LAN applications, as well as a complete line of termination tools and structured cabling products. AIM-Cambridge promises that its product will provide you with unmatched consistency, quality, reliability and ease of use.

Johnson Connectivity Solutions



Johnson designs and manufactures an industry leading line of RF coaxial connectors and adapters, which are available in both 50 and 75 ohm versions. Johnson connectors are designed to provide the highest quality data transmission for audio, video and data applications. The Johnson line of products can address frequency ranges from DC to 46GHz and all sizes from Ultra-miniature interfaces (UMC), Micro-miniature, (MCX, MMCX, SMP), Subminiature (SMA, SMB, SMK, kwiQMate™), Medium connectors (Type N connectors) through to large connectors (DIN7/16). The breadth of products available within the Johnson range includes board and cable mount connectors as well as semi-rigid, conformable, and flexible RF coaxial cables.

Midwest Microwave Connectivity Solutions



Midwest Microwave manufactures passive coaxial microwave components that are known for their precision performance and high quality that meets the precise requirements of the RF/Microwave industry. Our broad product portfolio includes: Attenuators, Precision Adapters, Terminations, DC Blocks, Power Dividers, Couplers, Equalizers, Phase Shifters, Connectors, Custom Cable Assemblies and Test Cables that are designed and manufactured for both military and commercial applications.

Midwest also offers a wide variety of Qualified Product List (QPL) approved products in the M3933, M39030 and M39012 series, as well as many DESC/DSCC approved models.

Semflex Connectivity Solutions



Semflex designs and manufactures low loss, flexible, microwave coaxial cable and custom cable assemblies for the military/aerospace, commercial OEM and test instrumentation markets. Semflex offers cables ranging from DC to 50 GHz, available with ultra low insertion loss, power ratings up to 21 KW, and available with all popular connectors.

Stratos Connectivity Solutions



Stratos optical connectivity products is globally recognized as highly reliable, cost-effective, and provides optical connectivity solutions that are virtually immune to dust, mud, oil, water, and other contaminants.

Our expanded beam connectivity products are ideal for harsh environment applications in the broadcast, industrial, petrochemical and military/aerospace markets where high reliability, low maintenance and quick serviceability are critical requirements. Our optical active products are used mainly in military, aerospace and industrial markets where high speed/high reliable performance is mission critical. The active product line includes optical transceivers, optical media converters and custom devices tailored to your application.

Trompeter Connectivity Solutions



Trompeter is recognized as a global leader in delivering best in class RF connectivity products. The Trompeter line of patch jacks, RF connectors, cable assemblies, HDTV digital technology and DS3 connectivity solutions is unrivalled. Our mission is to provide products that continually deliver the highest quality signal integrity for the most demanding applications in Telecom, Central Office, Broadcast, Military Aerospace, and Instrumentation markets worldwide. Our extensive line of cost-effective products are rigorously designed and tested to provide the critically engineered solutions necessary to enhance the end-user's overall experience.

Vitelec Connectivity Solutions



Vitelec provides a comprehensive range of RF coaxial interconnect products and cable assemblies. The company has a long established reputation for offering quality and innovation with a wide range of both standard and custom designed products for the electronic and communication industries.

Table of Contents

RF Connectors & Adapters

75 Ohm BNC Connectors	6
Crimp-On 75 Ohm 3-Piece BNC Connectors	6
Crimp-On 75 Ohm 2-Piece BNC Connectors	6
Twist-On 75 Ohm BNC Connectors.....	7
75 Ohm BNC Adapters.....	7
Twist-On 50 Ohm BNC Connectors.....	7
Chassis Mount 50 Ohm BNC Connectors	8
BNC Terminators & Attenuator Pads.....	8
2-Piece Crimp-On 50 Ohm BNC Connectors	8
3-Piece Crimp-On 50 Ohm BNC Connectors	9
50 Ohm BNC Adapters.....	9
50 Ohm 'N' Connectors, Adapters & Terminators.....	10
Mini-UHF Connectors & Adapters	11
UHF Connectors & Adapters	11, 12
TNC Adapters	12
SMA Connectors & Adapters.....	13
Strain Relief Boots & Hoods for Coaxial Connectors.....	13

'F' Connectors & Adapters

Weatherproof 'F' Connectors.....	14
'F' 56 Series Connectors for RG-6	14
'F' 59 Series Connectors for RG-59.....	15
'F' Connectors for RG-11	15
'F' Series Splice Adapters	16
'F' Connector - Chassis & PCB Mount	16
'F' Series Adapters	17
'F' Voltage Blocks & Attenuator Pads	17

Quick Selector—Connector to EMERSON Tool Guide

18, 19

Audio/Video Connectors & Adapters

RCA Standard Series Adapters	20
Audio Adapters	20

D-Subminiature Connectors & Modular Adapters

D-Sub Hoods with Grommets	21
98 Series Crimp Style D-Sub Connectors	21
94 Series Crimp Style High Density D-Sub Connectors.....	21
D-Sub Pins & Sockets	22
D-Sub Termination Tools.....	22
D-Sub Hardware	22
97 Series Solder Style D-Sub Connectors	23
95 Series Solder Style High Density D-Sub Connectors	23
D-Sub Hoods	23
D-Sub Modular Adapter Kits (1- & 2-Piece Hood)	23

Computer & LAN Cables

Premium Multi-Coax Monitor Cables	24
Universal Series Bus Cables (USB Ver. 2.0).....	24
Bi-Directional Parallel Printer Cables.....	25
Serial & Parallel Extension Cables.....	25
D-Sub Switch Boxes & Cables	25
Serial Modem Cables	26
D-Sub Gender Changers & Adapters.....	26

Coaxial Cables

Deluxe RCA Audio Cables with Gold Connectors	27
Video Cables	27
Audio Cables & Adapters.....	27
75 Ohm 'F' to 'F' Hook-Up Cables.....	28
Silver Satin Flat Cables	28
Coaxial LAN & Video Cables	28
Custom Made Coaxial Cables	29, 30

Network Cable Assemblies

Category 5E & 6 Patch Cables	31
------------------------------------	----

Modular Plugs & Adapters

Modular Plugs	32
Telephone Butt Splices.....	33
Modular Couplers & Adapters.....	33
Modular Termination Tools.....	33, 34
Modular Surface Mount Boxes	34
Modular Telephone Wallpates	34
DC Blocking Coupler	35
CATV/SATV Accessories.....	35

Tools & Test Equipment

Cable Tester Kits	36
Pro-Series 110 & 66 Impact Punch Down Tools	36
Non-Impact Punch Down Tools	37
Modular Plug Crimping Tools	37
D-Sub Crimping & Termination Tools	38
D-Sub Insertion Tools	38
Heavy Duty 'F' Hex Crimping Tools	39
Universal Coaxial Crimping Tools	39

Table of Contents

Offset Ratchet Crimping Tools	39
Standard Series Ratchet Crimping Tools	40
Self-Adjusting Coax Strippers	40
3-Step & 2-Step Coax Strippers	41
Tool & Work Bench Accessories.....	41

Coaxial Connector Termination Instructions

42

Index..... 43–45

Aim & Cambridge Cross-Reference

46, 47

Terms & Conditions

48, 49

While every precaution has been taken to ensure accuracy and completeness herein, Emerson Network Power Connectivity Solutions assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Specifications subject to change without notice.



The AIM-Cambridge Product line from Emerson Connectivity Solutions has been offering a complete line of quality RF connectors for over 50 years. Available in 50 and 75 Ohm versions, these connectors are designed to offer the highest quality data transmission for data, video and audio applications, and are available in BNC, TNC, F, SMA, N, UHF and Mini-UHF versions, plus a full line of adapters. If you are looking for preassembled RF cables, our custom cable department has the capability to build any assembled cable to your custom length or configuration, using these connectors that we stock for quick turn delivery.

75 Ohm BNC Connectors

Electrical Characteristics

Impedance: 75 Ohm
Working voltage: 500 volts, RMS at sea level
Frequency range: 0-2 GHz with low reflection
 Outer - 0.2 milliohms
 Center - 2.1 milliohms (.000050 gold)
Contact resistance:
Insulation resistance: 5,000 megohms minimum
Dielectric withstanding voltage: 1,500 volts, RMS at sea level
Corona Level: 375 volts minimum at 70,000 ft.

Environmental Characteristics

Recommended temp. range: -55 C to +85 C
Vibration: MIL-Std. 202
Shock: MIL-Std. 202, 100Gs
Moisture resistance: MIL-Std. 202

Mechanical Characteristics

Durability: 500 Cycles (.000050 gold)
Force to engage/disengage: 3 lbs. maximum
Coupling nut retention: 60 lbs. maximum
Cable retention: 60 lbs. with 95% braid coverage - RG58c/u cable

Material

Body: Zinc
Contact: Brass
Spring washer: Beryllium copper
Insulator: Teflon
Plating: Body - Nickel
 Contact - Gold

Crimp-On 75 Ohm 2-Piece BNC Connectors



Crimp BNC (M)
2 Piece, Solderless

Part No.	Cable Type	Tool No.
CP782	RG-59 & 62	24-9859P
28-90027 (CP785)	RG-6	24-9960P
28-90097 (CP7810)	RG-59 & 62TFE	24-9858P



Right Angle, Crimp
BNC (M) 2 Piece,
Solderless

Part No.	Cable Type
VB20-2031	RG-59

Crimp-On 75 Ohm 3-Piece BNC Connectors



Crimp BNC (M)
3 Piece

Part No.	Compatible Cable	Crimper	Stripper
28-91027 (CPMC785)	Belden RG-6	24-8856P	24-7733P
28-91037	Belden 1506A, RG-59TFE & RG-62TFE	24-9958P	24-7733P
CPMC782	Belden 1505A, RG-59, RG-62	24-7732P	24-7733P
CPMC783	Belden 8281, 9141, 9231	24-8859P	24-7733P
CPMC7818	Belden 735A, 8218, 1855A	24-9912P	24-7734P

(M) = Male Plug (F) = Female Socket

Twist-On 75 Ohm BNC Connectors

NEED IMAGE

Twist-On BNC (M)
1 Piece

Part No.	Cable Type
28-90507 (CPFIUG782)	RG-5a9 & 62
28-90527 (CPFIUG785)	RG-6
28-90547	RG-59 & 62TFE

75 Ohm BNC Adapters



In-Line Splice
BNC (F) to BNC (F)

Part No.
28-74307



Right Angle
BNC (M) to BNC (F)

Part No.
28-81507



1/2" Chassis Mount
BNC (F) to BNC (F)

Part No.
28-84707 (CPAD557)



'T' Adapter
3 Female (F-F-F)

Part No.
28-81417



BNC (M) to 'F' (F)

Part No.
28-75007 (CPAD517)



BNC (F) to 'F' (M)

Part No.
28-81007

CPAD705

Jack to Plug "T" Adapter

Part No.
28-81407

Twist-On 50 Ohm BNC Connectors



Twist-On BNC (M)
Piece, Crimpless & Solderless

Part No.	Cable Type
CPFIUG882	RG-59 & 62
CPFIUG881	RG-58
CPFIUG885	RG-6
CPFIUG8810	RG-59 & 62TFE
CPFIUG883	Belden 8281








Twist-On BNC (F)
1 Piece, UG-89



Part No.	Cable Type
CPFIUG892	RG-59 & 62

(M) = Male Plug (F) = Female Jack




Chassis Mount 50 Ohm BNC Adapters & Connectors

				
Front Mount Bulkhead Jack Receptacle without Solder Tab	Front Mount Bulkhead Jack Receptacle with Solder Tab	Bulkhead Jack to Jack Adapter with Lock Washer	Isolated BNC Jack Chassis Mount	Isolated Front Mount Bulkhead Jack Receptacle
Part No. CPI094U	Part No. CP1094AST	Part No. CPAD556M	Part No. 27-8471 (CPAD521)	Part No. CPAD520

BNC Terminators & Attenuator Pads


																				
BNC Terminators 1/2 W @ 1%, with and without Grounding Strap	BNC (M) to BNC (F) Attenuator Pads 1/2 W @ 5%, 50 Ohms																			
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(M) = Male Plug (F) = Female Socket

3-Piece Crimp-On 50 Ohm BNC Connectors

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50 Ohm BNC Adapters

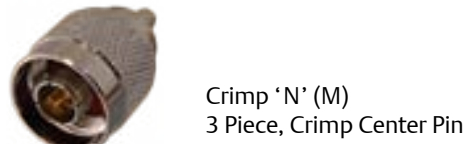
				
In-Line Splice BNC (F) to BNC (F), UG-914/U	BNC (M) to BNC (M)	BNC 'T' Adapter 3 Female (F-F-F)	BNC 'T' Adapter 1 Male - 2 Female (F-M-F), UG-274/U	BNC Goalpost 'T' Adapter 1 Male - 2 Female (F-M-F)
Part No. CPAD555	Part No. 27-8130	Part No. 27-8141	Part No. 27-8140	Part No. 27-9294

				
BNC (M) to 'F' (F)	BNC (F) to RCA (M)	BNC (M) to RCA (F)	BNC (F) to TNC (M)	BNC (F) to 'F' (M)
Part No. 25-7500	Part No. 27-8110	Part No. 25-7510	Part No. 27-8250	Part No. 27-8100

				
Right Angle BNC (F) to BNC (M)	BNC (F) to UHF (M)	BNC (M) to 'N' (F) UG-349/U	BNC (F) to SMA (F)	BNC (F) to SMA (M)
Part No. 27-8150	Part No. 27-8120	Part No. 26-8017	Part No. 29-3835	Part No. 29-3855

(M) = Male Plug (F) = Female Socket

50 Ohm "N" Connectors



Part No.	Cable Type	Tool No.
CPN8/110	RG-8 w/110 Center Cond.	24-7712P
CPN8	RG-8, 11, 213	24-7712P
CPN1	RG-58	24-9960P
CPN2	RG-59 & 62	24-9960P
CPN17	RG-8x	24-9960P
CPN142T	RG142TFE	--



Part No.	Cable Type
26-8000	RG-8, 11, 213, 214

Straight Crimp Plug,
Solder or Crimp Contact

Part No.	Cable Type
CPN688	RG-8, 213

50 Ohm "N" Adapters



Inline Splice
'N' (M) to 'N' (M),
UG-57B/U

Part No.
26-8009



Inline Splice
'N' (F) to 'N' (F),
UG-29B/U

Part No.
26-8010



Chassis Mount
'N' (F) to Solder Lug
UG-58B/U

Part No.
26-8011



Right Angle
'N' (M) to 'N' (F),
UG-27/U

Part No.
26-8012



'N' (F) to BNC (M)
UG-349/U

Part No.
26-8017



Jack to Bulkhead
Jack Inline Adapter,
UG-29B/U

Part No.
CPAD851



'N' (M) to BNC (F)
UG-201U

Part No.
26-8016



'N' (M) to UHF (F)
UG-146/U

Part No.
26-8015



'N' (F) to UHF (M)
UG-83/U

Part No.
26-8014



'N' (M) to 'F' (F)

Part No.
26-8020



'N' (M) to SMA (F)

Part No.
29-3840

50 Ohm "N" Terminators



'N' Terminator (M)
1W @ 2%

Part No.	Ohms
26-8023	50 Ohms

(M) = Male Plug (F) = Female Socket

Mini-UHF Connectors



Mini-UHF (M)
Crimp, 3 Piece, Black

Part No.	Cable Type	Tool No.
29-4021	RG-58	24-9958P



Mini-UHF (M)
Crimp, 3 Piece

Part No.	Cable Type	Tool No.
29-4010 (MiniUHF1)	RG-58	24-9958P
29-4031 (MiniUHF2)	RG-59 & 62	24-9959P
29-4033 (MiniUHF17)	RG-8X	24-9958P



Mini-UHF (F)
Crimp, 3 Piece

Part No.	Cable Type	Tool No.
29-4030	RG-58	24-9958P

Mini-UHF Adapters



Mini-UHF (F) to
Mini-UHF (F)

Part No.
29-4110 (CPAD240)



Mini-UHF (M) to
Mini-UHF (F)

Part No.
29-4140 (CPAD214)



Mini-UHF (M) to
TNC (F)

Part No.
29-4100 (CPAD305)



Mini-UHF (F) to TNC
(M)

Part No.
29-4105 (CPAD302)



Mini-UHF (F) to
UHF (M)

Part No.
29-4145 (CPAD219)

UHF Connectors



UHF (M)
Solder, 2 Piece, PL-259

Part No.	Cable Type
25-7300 (CPAD250)	RG-8, 11, 213, 214



Crimp UHF (M)
3 Piece

Part No.	Cable Type	Tool No.
CPL2591	RG-58	24-9958P
25-7308	RG-59, 62	24-9959P



UG-175 Reducer
Used with a PL-259

Part No.	Cable Type
25-7310	RG-58
25-7320	RG-59

UHF Adapters

In-Line Splice PL-258, UHF (F) to UHF (F)	Right Angle Adapter UHF (M) to UHF (F)	UHF 'T' Adapter 3 Female (F-F-F)	UG-146/U Adapter UHF (F) to 'N' (M)	UG-83/U Adapter UHF (M) to 'N' (F)	Chassis Mount UHF (F) to UHF (F) UG-363/U
Part No. 25-7330 (CPAD204)	Part No. 25-7340	Part No. CPAD210 (25-7324)	Part No. 26-8015 (CPAD808)	Part No. 26-8014	Part No. CPAD207

UHF (M) to Mini-UHF (F)	UG-273/U Adapter UHF (M) to BNC (F)	UHF (F) to Mini-UHF (M)	UHF (F) to 'F' (M)	Chassis Mount UHF (F) to Solder Lug, SO-239
Part No. 29-4145 (CPAD219)	Part No. 27-8120 (CPAD500)	Part No. 29-4140 (CPAD214)	Part No. 27-8200	Part No. 25-7350 (CPAD206)

TNC Adapters

Chassis Mount TNC (F) to TNC (F), 1/2" Mounting Hole	TNC Inline Splice TNC (F) to TNC (F)	TNC (F) to Mini-UHF (M)	TNC (M) to Mini-UHF (F)	TNC Right Angle TNC (M) to TNC (F)	TNC (M) to BNC (F)
Part No. 27-9067 (CPAD356)	Part No. 27-9069 (CPAD355)	Part No. 29-4100 (CPAD305)	Part No. 29-4105 (CPAD302)	Part No. 27-9068 (CPAD306)	Part No. 27-8250 (CPAD300)

(M) = Male Plug (F) = Female Socket

SMA Connectors

SMA for Flexible Cable (M) Crimp, 3 Piece, Solder or Crimp Center Pin	SMA (M) Crimp, 3 Piece, Solder or Crimp Center Pin
Part No. 28-5020	Part No. 29-3100
Cable Type RG-161/U, 174, 188, 316	Cable Type 58A/U-141
VSWR & Freq. Range 1.15 + .021 (GHz) 0-12.4 GHz	Tool No. 24-328P
Part No. 28-5022	Part No. 29-3103
Cable Type RG-55/U, 142, 223, 400	Cable Type 174, 188, 316
VSWR & Freq. Range 1.15 + .011 (GHz) 0-12.4 GHz	Tool No. 24-328P

SMA Adapters

SMA (M) to BNC (F)	SMA (F) to BNC (F)	SMA (F) to 'N' (M)
Part No. 29-3855	Part No. 29-3835	Part No. 29-3840

Stain Relief Boots & Hoods for Coaxial Connectors

Colored BNC Boots, 100 per bag

Part No.	Cable Type	Color
25-7958BK	RG-58, 141	Black
25-7958RE	RG-58, 141	Red
25-7958BU	RG-58, 141	Blue
25-7958YE	RG-58, 141	Yellow
25-7958GN	RG-58, 141	Green

BNC Boots Black Only, 100 per bag

Part No.	Cable Type	Color
25-B58	RG-58, 141	Black
25-B58TN	RG-58, ThinNet	Black
25-B174	RG-174	Black

RG-59 Weatherproof Boot Black Only, 100 per bag

Part No.
25-7270

Colored SMA Hoods, 100 per bag

Part No.	Cable Type	Color
25-7959BK	RG-59, 62	Black
25-7959RE	RG-59, 62	Red
25-7959BU	RG-59, 62	Blue
25-7959YE	RG-59, 62	Yellow
25-7959GN	RG-59, 62	Green

BNC Hood for 3-Piece Crimp Plug

Black Only, 100 per bag

Part No.
25-7960BK

(M) = Male Plug (F) = Female Socket



With one of the widest selections of ‘F’ connectors in the industry, we offer you a high-quality, cost-effective connectivity solution. All our ‘F’ connectors are designed to meet the high standards of the Satellite and Cable TV industries. Our ‘F’ type connectors are available for RG-59, RG-6 and RG-11 cable and are offered in twist-on, crimp, solder style and weatherproof varieties.

* 0 - 3 GHz

Weatherproof “F” Connectors



Gel Filled ‘F’ (M)
Crimp, 0.324 Diameter, with O-ring for Weatherproof Application.

Part No.	Cable Type	Tool No.
25-7066	RG-6	24-7710P



F-56ALM WP (M)
Crimp, 1 Piece, 0.324 Diameter, Chromate Plated, with Interior Gasket.

Part No.	Cable Type	Tool No.
25-7056 (CPF56ALMWP)	RG-6	24-8866P

“F” 56 Series Connectors for RG-6

(Use Crimp Tools 24-7710 or 24-8866P for connectors listed)



Crimp-On F-56 (M) with Separate 1/4” Ring

Part No.
25-7150



Crimp-On F-56ALX (M) for RG-6 Tri-Shield & Quad Plenum Cable

Part No.
25-7033 (CPF56ALX)



Crimp-On F-56ALX (M) for RG-6 Quad-Shield Cable

Part No.
25-7034 (CPF56ALS)



Crimp-On F-56A (M) with attached 1/4” Ring

Part No.
25-7160



‘F’ Ratchet Crimp Tool for RG-59, RG-6 and Quad Shield Cable

Part No.
24-8866P



Crimp-On F-56ALM (M) for RG-6 Cable

Part No.
25-7032 (CPF56ALM)



Crimp-On F-56 (M) for Teflon/Plenum RG-6 Cable

Part No.
25-7047



Twist-On F-56 (M) for standard RG-6 Cable

Part No.
25-7180 (CPF156)



Crimp-On F-56ALM (M) for RG-6 Cable, Zinc Plated

Part No.
25-7036

(M) = Male Plug (F) = Female Socket

“F” 59 Series Connectors for RG-59

(Use 24-7710 or 24-8866P for the following connectors)



Crimp-On F-59 (M) with Separate 1/8” Ring

Part No.
25-7000



Crimp-On Gold Plated F-59 (M) with Separate 1/8” Ring

Part No.
25-7000G



Crimp-On F-59 (M) with Separate 1/4” Ring

Part No.
25-7010 (CPF591/4)



Crimp-On F-59 (M) with Separate 1/2” Ring

Part No.
25-7020 (CPF591/2)



Crimp-On F-59A (M) with Attached 1/8” Ring

Part No.
25-7050 (CPF59A)



‘F’ Deluxe Hex Crimp Tool for RG-6 & 59

Part No.
24-7710
24-7710P

800-ac-25-7030-001



Crimp-On F-59ALM (M) for Standard RG-59 Cable

Part No.
25-7030 (CP59ALM)



Crimp-On F-59ALX (M) for Tri-Shield RG-59 & Quad Plenum

Part No.
25-7031 (CP59ALX)



Crimp-On F-59 (M) for Thin Cable RG-59, 62 Teflon

Part No.
25-7035



Right Angle Crimp-On F-59R (M) for RG-59 Cable

Part No.
25-7146



Twist-On F-59TW (M) for Standard RG-59 Cable

Part No.
25-7120



Twist-On F-59TW (M) with 1/2” Grip for Standard RG-59

Part No.
25-7121



F-59T (M) Terminator 1/2 Watt @ 5%

Part No.
25-7100

“F” Connectors for RG-11



Crimp-On F-11 (M) 1 Piece, for Standard RG-11 Cable

Part No.	Cable Type	Tool No.
25-7191 (CPF11ALM)	RG-11	24-7711P

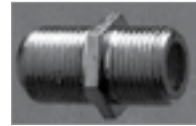


Crimp-On F-11 (M) 3 Piece, for Teflon/Plenum RG-11 Cable

Part No.	Cable Type	Tool No.
25-7192	RG-11	24-7712P

(M) = Male Plug (F) = Female Socket

“F” Series Splice Adapters



F-81 Inline 3/4” Splice (F) to (F)

Part No.
25-7200



F-81 Inline 1” Splice (F) to (F)

Part No.
25-7200L (CPF81L)



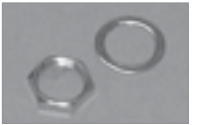
F-81 2GHz 1” Splice for CATV & Satellite (F) to (F)

Part No.
VSF81-G



F-81 Inline 3/4” Splice with Nut & Washer (F) to (F)

Part No.
25-7210 (CPF81NW)



7/16” Nut & Washer for use with all AIM ‘F’ Mounts & Splices

Part No.
NW-F81



F-71 Inline Splice (M) to (M)

Part No.
25-7640 (CPF71)



F-81 2GHz 1” Splice with Nut & Washer for CATV & Satellite (F) to (F)

Part No.
VSF81G-NW

“F” Connector – Chassis & PCB Mount



‘F’ Side Edge PCB Mount (F)

Part No.
25-7630 (CPF61SE)



F-61PC Straight PCB Mount (F)

Part No.
25-7650



F-61HD Chassis Mount (M) with 2 flat Sides

Part No.
25-7670



F-61AD Chassis Mount (F)

Part No.
25-7660



‘F’ Right Angle PCB Mount, Short (F)

Part No.
25-7652 (CPF61SR)

Crimp O-Rings

Part No.	Cable Type	Ring
25-7110	RG-59	1/8”
25-7040	RG-59	1/4”
25-7090	RG-59	1/2”
25-7620	RG-11	1/5”



(M) = Male Plug (F) = Female Socket

“F” Series Adapters



‘F’ (F) to Push-On ‘F’ (M)

Part No.
25-7140



‘F’ (F) Right Angle to Push-On ‘F’ (M)

Part No.
25-7141 (CPAD101)



‘F’ (F) to RCA (F)

Part No.
25-7570



‘F’ (F) to RCA (M)

Part No.
25-7530 (CPAD103)



‘F’ (M) to RCA (F)

Part No.
25-7580 (CPAD106)



‘F’ (M) to UHF (F)

Part No.
27-8200



‘F’ (F) Right Angle to ‘F’ (M)

Part No.
25-7600



‘F’ (F) to ‘N’ (M)

Part No.
26-8020 (CPAD811)



‘F’ (M) to BNC (F)

Part No.
27-8100 (CPAD502)



‘F’ (F) to BNC (M)

Part No.
25-7500

“F” Voltage Blocks



800-ac-25-7901-001

‘F’ Voltage Blocking Coupler Blocks DC and Low Frequency AC Power-Bandwidth: DC to 1 GHz, Return Loss 25db, (M) to (F)

Part No.
25-7901

(M) = Male Plug (F) = Female Socket

The AIM-Cambridge line carries several types of RCA Connectors along with a line of Standard, Gold, and Audio Series Adapters to fit your Audio Video needs. Please look at the A/V cable assembly options throughout this catalog for all your other specific needs.

RCA Standard Series Adapters

					
RCA (F) to BNC (M)	RCA (M) to BNC (F)	RCA (F) to RCA (F)	RCA (F) to 'F' (F)	RCA (M) to 'F' (F)	RCA (F) to 'F' (M)
Part No. 25-7510 (CPAD515)	Part No. 27-8110 (CPAD501)	Part No. 19-1702	Part No. 25-7570	Part No. 25-7530 (CPAD103)	Part No. 25-7580

Audio Adapters


		
'Y' Adapter, Stereo (1) RCA Plug (M) to (2) RCA Jacks (F)	'Y' Adapter, Stereo 3.5 mm Mini-Plug (M) to (2) RCA Jacks (F)	'Y' Adapter, Stereo (2) RCA Plugs (M) to (1) RCA Jack (F)
Part No. 19-1671P	Part No. 19-1672P	Part No. 19-1673P

(M) = Male Plug (F) = Female Socket





With one of the widest varieties of D-Subminiature connectors and modular adapters, we offer a complete D-Sub connectivity solution. Available in both crimp or solder styles, our offering provides the quality that you need at a reasonable cost. Our D-Sub hoods are available in plastic, as well as EMI/RFI protected metalized plastic and heavy duty metal. No D-Sub purchase is complete without reviewing our wide selection of Emerson D-Sub termination tools as seen on [page 22](#).

D-Sub Hoods with Grommets

																									
Standard Plastic H Series Hoods with Rubber Grommets, includes Mounting Hardware	Heavy Duty Metal HM Series Hoods with Rubber Grommets, includes Mounting Hardware																								
<table border="1"> <thead> <tr> <th>Part No.</th> <th>Pins</th> <th>Hood</th> </tr> </thead> <tbody> <tr> <td>40-9709HG</td> <td>9</td> <td>Plastic</td> </tr> <tr> <td>40-9715HG</td> <td>15</td> <td>Plastic</td> </tr> <tr> <td>40-9725HG</td> <td>25</td> <td>Plastic</td> </tr> </tbody> </table>	Part No.	Pins	Hood	40-9709HG	9	Plastic	40-9715HG	15	Plastic	40-9725HG	25	Plastic	<table border="1"> <thead> <tr> <th>Part No.</th> <th>Pins</th> <th>Hood</th> </tr> </thead> <tbody> <tr> <td>40-9709HMG</td> <td>9</td> <td>Metal</td> </tr> <tr> <td>40-9715HMG</td> <td>15</td> <td>Metal</td> </tr> <tr> <td>40-9725HMG</td> <td>25</td> <td>Metal</td> </tr> </tbody> </table>	Part No.	Pins	Hood	40-9709HMG	9	Metal	40-9715HMG	15	Metal	40-9725HMG	25	Metal
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40-9725HMG	25	Metal																							



98 Series Crimp Style Panel & Cable Mount D-Sub Connectors

Copper-Alloy Gold Plated Contacts, Steel, Nickel Plated Housing, PBT-Fiberglass and Nylon 66, UL94VO, Black Insulator

																																	
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40-9815S	15	F	Copper/Gold																														
40-9825S	25	F	Copper/Gold																														

94 Series Crimp Style Panel & Cable Mount High Density D-Sub Connectors

Gold Plated Contacts, Steel, Tin Plated Housing, PBT + Fiberglass, UL94VO, Black Insulator

																	
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Part No.	Pins	Gender	Housing														
40-9415HDM	15	M	Tin														
Part No.	Pins	Gender	Housing														
40-9415HDS	15	F	Tin														

(M) = Male Plug (F) = Female Socket

D-Sub Pins & Sockets



Standard D-Sub Pins for 98 Series (M) Gold Plated

Part No.	Quantity
40-9854M	25 per bag
40-9856M	100 per bag



Standard D-Sub Pins for 98 Series (F) Gold Plated

Part No.	Quantity
40-9864S	25 per bag
40-9866S	100 per bag



High Density D-Sub Pins for 94 Series (M) & 98 Series Gold Plated

Part No.	Quantity
40-9428M	100 per bag



High Density D-Sub Pins for 94 Series (F) & 98 Series Gold Plated

Part No.	Quantity
40-9428F	100 per bag

D-Sub Termination Tools



D-Sub Insertion & Extraction Tool

Part No.	Type
40-9865	Standard



D-Sub Non-Ratchet Crimp Tool Crimps Non-Insulated Open Barrel Connectors & Contacts

Blister No.
24-7373P



D-Sub Crimping Tool for Precision Machined Contacts, 4 Way Indent, Crimps 20-26 AWG with Built-in Contact Locator

Blister No.
24-8643P



D-Sub Full Cycle Ratchet Crimping Tool with Tension Adjustment Wheel, Crimps 18-22 & 24-30 AWG, Non-Insulated Open Barrel Connectors, D-Sub Contacts

Blister No.
24-8644P
24-8645P

D-Sub Hardware

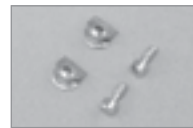


Fig. A



Fig. B



Fig. C



Fig. D



Fig. E



Fig. F

Description	Length	Figure	Gender	Part No. (1 Set)	Bulk (50 Sets)
Screw & Retainer	0.31"	A	M	40-98440M	40-98440M-C
Screw & Retainer	0.55"	B	M	40-98441M	40-98441M-C
Hex Female Screw Locks	0.30"	C	F	40-98440F	40-98440F-C
Hex Female Screw Locks	0.50"	D	F	40-98442F	40-98442F-C
Hex Standoff	0.24"	E	F	40-98443N	40-98443N-C
Thumbscrew Set	1.25"	F	M	40-9844T	40-9844T-C

(M) = Male Plug (F) = Female Socket

97 Series Solder Style Panel & Cable Mount D-Sub Connectors

Copper Alloy, Gold Plated Contacts, Steel, Nickel Plated Housing, PBT + Fiberglass, UL94VO, White Insulator



Part No.	Pins	Gender	Housing
40-9709M	9	M	Copper/Gold
40-9715M	15	M	Copper/Gold
40-9725M	25	M	Copper/Gold
40-9737M	37	M	Copper/Gold
40-9750M	50	M	Copper/Gold



Part No.	Pins	Gender	Housing
40-9709S	9	F	Copper/Gold
40-9715S	15	F	Copper/Gold
40-9725S	25	F	Copper/Gold
40-9737S	37	F	Copper/Gold
40-9750S	50	F	Copper/Gold

95 Series Solder Style Panel & Cable Mount High Density D-Sub Connectors

Copper Alloy, Gold Plated Contacts, Steel, Nickel Plated Housing, PBT + Fiberglass, UL94VO, White Insulator



Part No.	Pins	Gender	Housing
40-9515HDM	15	M	Tin
40-9526HDM	26	M	Tin



Part No.	Pins	Gender	Housing
40-9515HDS	15	F	Tin
40-9526HDS	26	F	Tin

D-Sub Hoods



Standard Plastic 'H' Series D-Sub Hoods includes Mounting Hardware, Gray

Part No.	Pins
40-9709H	9
40-9715H	15
40-9725H	25
40-9737H	37
40-9750H	50



Deluxe Plastic 'HX' Series D-Sub Hoods includes Mounting Hardware & Set Screw to Hold Cable, Gray

Part No.	Pins
40-9709HX	9
40-9715HX	15
40-9725HX	25



Deluxe Metalized 'HS' Series D-Sub Hoods includes Mounting Hardware, Shield Coating, Silver

Part No.	Pins
40-9709HS	9
40-9715HS	15
40-9725HS	25



Shielded Metal 'HM' Series D-Sub Hoods includes Hardware, Silver

Part No.	Pins
40-9709HM	9
40-9715HM	15
40-9725HM	25

D-Sub Modular Adapter Kits (1-Piece Hood)



Color: Gray
Built to USOC Color Code

Part No.	Mod	D-Sub	Gender	Housing
40-9536M	RJ-12	9	M	1 Piece
40-9536F	RJ-12	9	F	1 Piece
40-9538M	RJ-45	9	M	1 Piece
40-9538F	RJ-45	9	F	1 Piece
40-9558M	RJ-45	15	M	1 Piece
40-9558F	RJ-45	15	F	1 Piece
40-9586M	RJ-12	25	M	1 Piece
40-9586F	RJ-12	25	F	1 Piece
40-9588M	RJ-45	25	M	1 Piece
40-9588F	RJ-45	25	F	1 Piece



When computer connectivity is the project at hand, turn to Emerson Connectivity Solution. We offer a complete line of computer cables and adapters, including HDMI, USB, RS-232, and IEEE 1284 printer cables. If it's LAN or Ethernet cable assemblies, we offer both CAT5E and CAT6 patch cables in a molded low profile in several lengths and colors. Custom cable assemblies are always available and we offer quick turnaround time for your production needs.

Premium Multi-Coax Monitor Cables



VGA/SVGA Multi-Coax
5 BNC Monitor Cable

Part No.	Length	Conn. 1	Conn. 2
73-6360-6	6 feet	HD15 (M)	5BNC (M)
73-6360-10	10 feet	HD15 (M)	5BNC (M)



VGA/SVGA Multi-Coax
Monitor Cable

Part No.	Length	Conn. 1	Conn. 2
30-1511-6	6 feet	HD15 (M)	HD15 (M)
30-1511-10	10 feet	HD15 (M)	HD15 (M)

Universal Serial Bus Cables (USB Ver. 2.0)

These USB cables consist of one pair of 20-28 AWG wire for power distribution (low or full speed) and one pair of 28 AWG wire twisted, with a shield and overall jacket (full speed) for signal distribution.



USB A-B Cable
Version 2.0

Part No.	Length	Conn. 1	Conn. 2
30-3007-3	3 feet	USB A (M)	USB B (M)
30-3007-6	6 feet	USB A (M)	USB B (M)
30-3007-10	10 feet	USB A (M)	USB B (M)
30-3007-15	15 feet	USB A (M)	USB B (M)



USB A-A Extension
Cable Version 2.0

Part No.	Length	Conn. 1	Conn. 2
30-3008-6	6 feet	USB A (M)	USB A (F)



USB A-A Cable
Version 2.0

Part No.	Length	Conn. 1	Conn. 2
30-3006-6	6 feet	USB A (M)	USB A (M)
30-3006-10	10 feet	USB A (M)	USB A (M)
30-3006-15	15 feet	USB A (M)	USB A (M)

(M) = Male Plug (F) = Female Socket

Bi-Directional Parallel Printer Cables

These USB cables consist of one pair of 20-28 AWG wire for power distribution (low or full speed) and one pair of 28 AWG wire twisted, with a shield and overall jacket (full speed) for signal distribution.



IEEE 1284 Centronics Printer Cable
18 Pair, 28AWEG, Dual-Shielded

Part No.	Length	Conn. 1	Conn. 2
30-1284AB-3	3 feet	DB25 (M)	Cent36 (M)
30-1284AB-6	6 feet	DB25 (M)	Cent36 (M)



Centronics Printer Cable
36 Conductor, 28 AWG, Shielded

Part No.	Length	Conn. 1	Conn. 2
30-9506CC	6 feet	Cent36 (M)	Cent36 (M)
30-9510CC	10 feet	Cent36 (M)	Cent36 (M)



Centronics Printer Cable
25 Conductor, 28 AWG, Shielded

Part No.	Length	Conn. 1	Conn. 2
30-9506MC	6 feet	DB25 (M)	Cent36 (M)
30-9510MC	10 feet	DB25 (M)	Cent36 (M)
30-9525MC	25 feet	DB25 (M)	Cent36 (M)

Serial & Parallel Extension Cables



Serial & Parallel Extension Cable
25 Conductor, 28 AWG, Shielded

Part No.	Length	Conn. 1	Conn. 2
30-9506MF	6 feet	DB25 (M)	DB25 (F)
30-9510MF	10 feet	DB25 (M)	DB25 (F)
30-9525MF	25 feet	DB25 (M)	DB25 (F)



DB9 Extension Cable (F)
Wired Pin to Pin

Part No.	Length	Conn. 1	Conn. 2
30-9506-77	6 feet	DB9 (F)	DB9 (F)
30-9510-77	10 feet	DB9 (F)	DB9 (F)



DB9 Data Extension Cable
Wired Pin to Pin

Part No.	Length	Conn. 1	Conn. 2
30-9506-99	6 feet	DB9 (M)	DB9 (F)
30-9510-99	10 feet	DB9 (M)	DB9 (F)

D-Sub Switch Boxes & Cables



DB9 Data Switch Cable
Wired Pin to Pin

Part No.	Length	Conn. 1	Conn. 2
30-9506-88	6 feet	DB9 (M)	DB9 (M)
30-9510-88	10 feet	DB9 (M)	DB9 (M)



DB25 Data Switch Cable
25 Conductor, 28 AWG, Shielded

Part No.	Length	Conn. 1	Conn. 2
30-9506MM	6 feet	DB25 (M)	DB25 (M)
30-9510MM	10 feet	DB25 (M)	DB25 (M)
30-9525MM	25 feet	DB25 (M)	DB25 (M)

(M) = Male Plug (F) = Female Socket

Serial Modem Cables



External Serial Modem Cable

Part No.	Length	Conn. 1	Conn. 2
30-9506-29	6 feet	DB25 (M)	DB9 (F)
30-9510-29	10 feet	DB25 (M)	DB9 (F)

D-Sub Gender Changers & Adapters



Gender Adapter DB9 (F) to DB25 (M)

Part No.
30-9516



Gender Adapter DB9 (M) to DB25 (F)

Part No.
30-9520



High Density D-Sub (SVGA) Mini Gender Changers & Port Saver

Part No.	Pins	Gender
30-9537	15	F to F
30-9538	15	F to M



D-Sub Mini Gender Changers

Part No.	Pins	Gender
30-9530	9	F to F
30-9531	9	M to M
30-9532	15	F to F
30-9533	15	M to M
30-9534	25	F to F
30-9535	25	M to M

(M) = Male Plug (F) = Female Socket



With a comprehensive line of RF connectors, we can provide a complete connectivity solution. We stock 50 and 75 ohm cables for Audio, Video and Data requirements, including hook-up cables for satellite and CATV installations; RCA cables and adapter cables for TV, DVD and VHS hook-ups; as well as BNC cables for networking and video applications. If not in stock in our warehouse, our custom cable department offers the capability to build any assembled or molded cable to your custom length or configuration, including BNC, 'N' UHF, Mini-UHF, TNC, SMA and 'F' versions.

Deluxe RCA Audio Cables with Gold Connectors



Deluxe Triple RCA Hook-Up & Dubbing Cables with Gold Connectors, Molded Strain Relief, 75 Ohm, One Video - Two Audio, Packaged for Retail Display

Part No.	Length	Conn. 1	Conn. 2
603DMGP	3 feet	RCA (M)	RCA (M)
606DMGP	6 feet	RCA (M)	RCA (M)
612DMGP	12 feet	RCA (M)	RCA (M)

Video Cables



HDMI to HDMI Cables. For standard and High-Definition (720 & 1080i) video formats providing up to 5Gbps of bandwidth

Part No.	Length	Conn. 1	Conn. 2
30-1611-1	1 meter	HDMI (M)	HDMI (M)
30-1611-2	2 meter	HDMI (M)	HDMI (M)
30-1611-3	3 meter	HDMI (M)	HDMI (M)
30-1611-5	5 meter	HDMI (M)	HDMI (M)

Audio Cables & Adapters



'Y' Adapter (1) RCA Plug (M) to (2) RCA Jacks (F)

Part No.
19-1671P



'Y' Adapter (2) RCA Plugs (M) to (1) RCA Jack (F)

Part No.
19-1673P



'Y' Adapter Stereo 3.5 mm Mini-Plug (M) to (2) RCA Plugs (M)

Part No.
19-1670P



'Y' Adapter Stereo 3.5 mm Mini-Plug (M) to (2) RCA Jacks (F)

Part No.
19-1672P



3.5 mm (M) to RCA Jack (F)

Part No.
25-7560

(M) = Male Plug (F) = Female Socket

75 Ohm "F" to "F" Hook-Up Cables for MATV/CATV/SATV/VCR/DVD



F-59 Hook-Up Cable with Gold Connectors Molded Strain Relief, 75 Ohm, Packaged for Retail Display

Part No.	Length	Conn. 1	Conn. 2
612FFGP	12 feet	F (M)	F (M)

Silver Satin Flat Cables



Modular Data Extension Cords (M) to (M) Plugs, Straight-Wired

Custom lengths available. Call for pricing for RJ11 & RJ12. **Made in USA.**



Modular Telephone Extension Cord (M) to (M) Plugs, Cross-Wired

Part No.	Length	Color	Conductors
32-1414	7 feet	Gray	6P4C (RJ-11)
32-1434	15 feet	Gray	6P4C (RJ-11)
32-1454	25 feet	Gray	6P4C (RJ-11)
32-6PP7	7 feet	Gray	6P6C (RJ-12)
32-6PP25	25 feet	Gray	6P6C (RJ-12)

Coaxial LAN & Video Cables



BNC Cable Assemblies Shielded BNC (M) to BNC (M), Black

50 Ohm RB-58	Length	75 Ohm RG-59
6035BBP	3 feet	603BBP
		606BBP
6012BBP	12 feet	612BBP



Custom Made Coaxial Cables

As part of the Emerson Network Power Connectivity Solutions, we offer a wide selection of quality cables and jumpers in most connector styles and lengths. With production capabilities in USA and Asia, we offer our customers the flexibility of quick turn assembled and molded cables in all styles and configurations, including Cat5E/6 jumpers, telco cables, Coaxial LAN, D-Sub, Audio/Video cables and many more.



RG-59 Audio & Video BNC to BNC Cables Constructed of RG-59, 75 Ohm, 80% Braid, 22 AWG Stranded Cable, Matching Colored Boots & Cable.

Length	Black Part No.	Blue Part No.	Green Part No.	Red Part No.	Yellow Part No.
3 feet	73-6310-3	73-6311-3	73-6312-3	73-6313-3	73-6314-3
6 feet	73-6310-6	73-6311-6	73-6312-6	73-6313-6	73-6314-6
10 feet	73-6310-10	73-6311-10	73-6312-10	73-6313-10	73-6314-10
25 feet	73-6310-25	73-6311-25	73-6312-25	73-6313-25	73-6314-25

* All cables available in custom lengths



RG-59 Audio & Video RCA to RCA Cables Constructed of RG-59, 75 Ohm, 80% Braid, 22 AWG Stranded Cable, Matching Colored Boots & Cable.

Length	Black Part No.	Blue Part No.	Green Part No.	Red Part No.	Yellow Part No.
3 feet	73-7410-3	73-7411-3	73-7412-3	73-7413-3	73-7414-3
6 feet	73-7410-6	73-7411-6	73-7412-6	73-7413-6	73-7414-6
10 feet	73-7410-10	73-7411-10	73-7412-10	73-7413-10	73-7414-10
25 feet	73-7410-25	73-7411-25	73-7412-25	73-7413-25	73-7414-25

* All cables available in custom lengths



RG-58 Thin Ethernet BNC to BNC Cables Constructed of 50 Ohm, 95% Braid & 100% Foil Shield Cable, 20 AWG Stranded (Belden 9907 Equivalent), Black PVC Cable.

Length	Black Part No.	Blue Part No.	Green Part No.	Red Part No.	Yellow Part No.
3 feet	73-6340-3	73-6361-3	73-6362-3	73-6363-3	73-6364-3
6 feet	73-6340-6	73-6361-6	73-6362-6	73-6363-6	73-6364-6
10 feet	73-6340-10	73-6361-10	73-6362-10	73-6363-10	73-6364-10
25 feet	73-6340-25	73-6361-25	73-6362-25	73-6363-25	73-6364-25

* All cables available in custom lengths

AS WITH ALL OF OUR CUSTOM BUILT CABLES, ADDITIONAL SIZES ARE ALWAYS AVAILABLE!

RG-58AU & RG-58 Thin Ethernet BNC to BNC Cables Constructed of RG-58AU, 50 Ohm, 95% Braid, 20 AWG Stranded Cable (Belden 8219 Equivalent), Black PVC Cable.

Length	Black Part No.	Blue Part No.	Green Part No.	Red Part No.	Yellow Part No.
3 feet	73-6300-3	73-6351-3	73-6352-3	73-6353-3	73-6354-3
6 feet	73-6300-6	73-6351-6	73-6352-6	73-6353-6	73-6354-6
10 feet	73-6300-10	73-6351-10	73-6352-10	73-6353-10	73-6354-10
25 feet	73-6300-25	73-6351-25	73-6352-25	73-6353-25	73-6354-25

* All cables available in custom lengths

(M) = Male Plug (F) = Female Socket

Other Custom Made Cables



For custom parts,
call customer service.

LAN Crossover Patch Cables
4 Pair UTP, 24 AWG Stranded, RJ-45 to RJ-45,
EIA568B, with Matching Colored Boots & Cable
(unless otherwise specified).

Length	Cat 5E-350 MHz	Cat 6-500 MHz
3 feet	74-778_X-3	74-888_X-3
7 feet	74-778_X-7	74-888_X-7
10 feet	74-778_X-10	74-888_X-10
14 feet	74-778_X-14	74-888_X-14
25 feet	74-778_X-25	74-888_X-25
50 feet	74-778_X-50	74-888_X-50

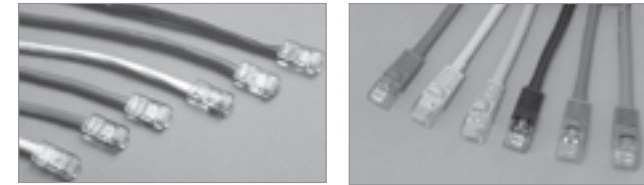
Colors: '_ '= 0-Gray, 1-Black, 2-Blue, 3-Green, 4-Red, 5-Yellow, 6-White

* All cables available in custom lengths

Made in U.S.A.

Call today for pricing and availability
on any custom cable assemblies.
Most name brand and equivalent
connector styles are available to
build to your configuration
and specifications!

Call Customer Service at (507) 833-8822



LAN patch cables are designed and tested to meet and exceed ANSI/TIA-568-B.2 Category 5E and ANSI/TIA-568-B.2-1 Category 6 industry standards. Available in assembled and molded low-profile boots, we offer a wide selection of 7 standard colors and 9 standard lengths. These cables are constructed of 24 AWG unshielded twisted pair 350 MHz and 500 MHz UL cable, and are stocked in our centrally located warehouse in Waseca, Minnesota.

In addition, our custom cable department is ready and able to build any custom length or special configuration LAN cable in all 10 standard colors, including crossover and shielded twisted pair patch cables. Private labeling and packaging are always available, just call with your custom requirements, and let us work for you!

Category 5E & 6 Patch Cables



Features:

- Cables are designed with 50u" Gold-Plated Modular Plugs
- Molded Cables have a Flexible Low-Profile Snagless Strain Relief
- Cat5E Cables are constructed of UL 350 MHz 24 AWG UTP Cable
- Cat6 Cables are constructed of UL 500 MHz 24 AWG UTP Cable
- All Cables are Retail Packaged with UPC-A Barcode
- ETL Tested & Verified to Category 5E and Category 6 Standards



Category 5E Assembled Patch Cables

These assembled type cables are constructed of Stranded 350 MHz UL Cable, Category 5E rated RJ-45 Plugs, and are built to the EIA568B standard configuration. (Example: Assembled, Green, 10 ft. = p/n 73-7773-10.)



Category 6 Molded Patch Cables

Designed with a low profile molded boot, these cables are constructed of Stranded 500 MHz UL Cable, Category 6 rated RJ-45 Plugs, and are built to the EIA568B standard configuration. (Example: Molded, Black, 3 ft. = p/n 73-8891-3.)

Category 5E Molded Patch Cables

Designed with a low profile molded boot, these cables are constructed of Stranded 350 MHz UL Cable, Category 5E rated RJ-45 Plugs, and are built to the EIA568B standard configuration. (Example: Molded, Gray, 7 ft. = p/n 73-7790-7.)



DB-9 to DB-9, D-Subminiature Cables
Fully loaded using 4 1/2 Pair, Dual Shield,
Low Capacitance Cable.

Length	(M) to (M) Part No.	(M) to (F) Part No.	(F) to (F) Part No.
6 feet	73-6210MM-6	73-6210MF-6	73-6210FF-6
10 feet	73-6210MM-10	73-6210MF-10	73-6210FF-10
25 feet	73-6210MM-25	73-6210MF-25	73-6210FF-25
50 feet	73-6210MM-50	73-6210MF-50	73-6210FF-50

* All cables available in custom lengths



DB-15 to DB-15, D-Subminiature Cables
Fully loaded using 7 1/2 Pair, Dual Shield,
Low Capacitance Cable.

Length	(M) to (M) Part No.	(M) to (F) Part No.	(F) to (F) Part No.
6 feet	73-6220MM-6	73-6220MF-6	73-6220FF-6
10 feet	73-6220MM-10	73-6220MF-10	73-6220FF-10
25 feet	73-6220MM-25	73-6220MF-25	73-6220FF-25
50 feet	73-6220MM-50	73-6220MF-50	73-6220FF-50

* All cables available in custom lengths



DB-25 to DB-25, D-Subminiature Cables
Fully loaded using 12 1/2 Pair, Dual Shield,
Low Capacitance Cable.

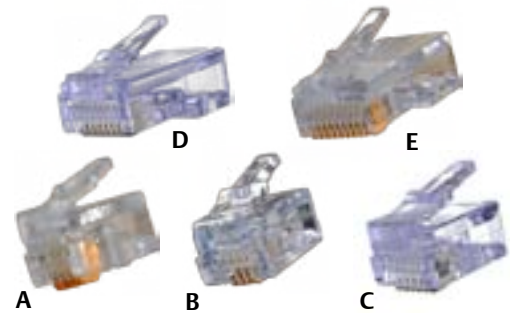
Length	(M) to (M) Part No.	(M) to (F) Part No.	(F) to (F) Part No.
6 feet	73-6230MM-6	73-6230MF-6	73-6230 FF-6
10 feet	73-6230MM-10	73-6230MF-10	73-6230 FF-10
25 feet	73-6230MM-25	73-6230MF-25	73-6230 FF-25
50 feet	73-6230MM-50	73-6230MF-50	73-6230 FF-50

* All cables available in custom lengths

	Cat5E Assembled	Cat5E Molded & Booted	Cat6 Molded & Booted
Length	Part No.	Part No.	Part No.
1 ft.	73-777x-1	73-779x-1	73-889x-1
3 ft.	73-777x-3	73-779x-3	73-889x-3
5 ft.	73-777x-5	73-779x-5	73-889x-5
7 ft.	73-777x-7	73-779x-7	73-889x-7
10 ft.	73-777x-10	73-779x-10	73-889x-10
14 ft.	73-777x-14	73-779x-14	73-889x-14
25 ft.	73-777x-25	73-779x-25	73-889x-25 Non-Stocked
50 ft.	73-777x-50	73-779x-50	73-889x-50 Non-Stocked
100 ft.	73-777x-100	73-779x-100	73-889x-100 Non-Stocked

X=Colors 0 (Gray), 1 (Black), 2 (Blue), 3 (Green), 4 (Red), 5 (Yellow), 6 (White)

Custom length assembled patch cables and crossover cables are also available with or without boots in all standard colors.



These premium quality UL listed modular plugs are manufactured in the USA to meet or exceed the high data transmission standards required by current voice and data communication standards. They are designed to work with most standard crimp tools, as well as the complete line of Emerson crimp tools as found on page 52. These connectors are available in 4, 6, 8 and 10 pin versions, and the gold contacts consist of 50 micro-inch gold plating, and are built to work with both solid and stranded conductor cables.

Modular Plugs

- Features:
- 50 micro-inch Gold-Plated contacts
 - Easy Installation with most Crimp Tools
 - UL Listed & Certified
 - Made in U.S.A.



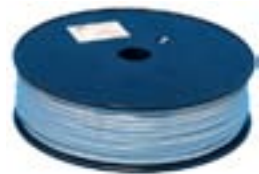
Part No.	Figure	RJ-11 (6p4c)	RJ-12 (6p6c)	RJ-45 (8p8c)	Cat5	Cat5E	Cat6	Straight	Offset	Load Bar	Solid	Stranded	Flat	Round	Unshielded
32-2298UL	G			✓		✓					✓	✓		✓	Shielded
32-5964UL	A	Handset Plug RJ-22 (4p4c)			✓			✓			✓	✓	✓	✓	✓
32-5954UL	B	✓			✓			✓			✓	✓	✓		✓
32-5994UL	B	✓			✓			✓			✓	✓		✓	✓
32-5956UL	C		✓		✓			✓			✓	✓	✓		✓
32-5996UL	C		✓		✓			✓			✓	✓		✓	✓
32-2098UL	F			✓	✓			✓			✓	✓		✓	Shielded
32-5958UL	D			✓	✓			✓			✓	✓	✓		✓
32-5998UL	D			✓	✓			✓			✓	✓		✓	✓
32-5998EUL	D			✓		✓			✓		✓	✓		✓	✓
32-2198UL	D			✓		✓		✓	✓	✓	✓	✓		✓	✓
32-6198UL	D			✓			✓			✓	✓	✓		✓	✓
<small>(Works with Belden 1872A and Bonded Cat6 7881 Wire)</small>															
32-5910UL	E			RJ-45 (10p10p)	✓			✓			✓	✓		✓	✓

NOTE: Packaged and sold in 100 piece bags only.



Cat5E & Cat6 Stranded Patch Cable 4 pair, 24 AWG Unshielded, EIA/TIA 568, 1,000 ft. 'Reel in Box' with cable length markings.

Cat5E (350 MHz)	Color	Cat6 (500 MHz)
65-9580	Gray	65-9680
65-9581	Black	65-9681
65-9582	Blue	65-9682
65-9583	Green	65-9683
65-9584	Red	65-9684
65-9585	Yellow	65-9685
65-9586	White	65-9686



Flat Silver Satin Telephone and Computer Equipment Wire Stranded Wire, Spool, Gray

Part No.	Cond.	Length	Listing
65-TF224M	4	1,000 feet	28AWG
65-TF226M	6	1,000 feet	28AWG
65-TF228M	8	1,000 feet	28AWG
65-TF264M	4	1,000 feet	26AWG-UL
65-TF266M	6	1,000 feet	26AWG-UL
65-TF268M	8	1,000 feet	26AWG-UL



Colored Snagless Boots – 100 per bag for RJ-45 8 Conductor Shielded and Unshielded Modular Plugs.

Color	Round
Gray	32-2900GY
Black	32-2900BK
Blue	32-2900BU
Green	32-2900GN
Red	32-2900RE
Yellow	32-2900YE
White	32-2900WH

Telephone Butt Splices



UR Connector 3 Ports for 2 or 3 Wire Connections, for 19-26 AWG Wire.

Part No.
32-5001



UY Connector Bundle Splice for 2 Wire Connections, for 22-26 AWG Wire.

Part No.
32-5002



UB Connector Space Saving Tap Connector to tap into existing wire without interruption, for 22-26 AWG Wire.

Part No.
32-5003



B-Wire Connector Splices 17 AWG Bare and 22 AWG Insulated Wire.

Part No.	Quantity
32-6001C	100 per pack

Modular Couplers & Adapters



Shielded Cat5e RJ-45 Modular In-Line Coupler Straight Wired

Part No.	Color
30-9242	Black



Unshielded Modular Duplex Adapter for Splitting Voice, Modem, Fax and Data Lines.

Part No.	Color	Pins
32-1014	Ivory	4
32-1014W	White	4
32-1016	Ivory	6
32-1016W	White	6
32-1018	Ivory	8
32-1018W	White	8



Unshielded Modular In-Line Coupler Cross Wired for Voice Applications.

Part No.	Color	Pins
32-1004	Ivory	4
32-1004W	White	4
32-1006	Ivory	6



Unshielded Cat5e Panel Mount RJ-45 Modular In-Line Coupler Straight for Data Applications.

Part No.	Color	Pins
30-9344B	Black	8



Unshielded Modular In-Line Coupler Wired Straight for Data Applications.

Part No.	Color	Pins
30-1004UL	Ivory	4
30-1006UL	Ivory	6
30-1008KUL	Ivory	8

Modular Tools



Modular Crimping Tool Crimps & Strips 4, 6, 8 & 8 Keyed Modular Plugs, also works on AMP & Stewart Connectors.

Part No.	Style
24-4680P	Non-Ratchet



Modular Crimping Tool Cuts, strips and terminates 2, 4, 6, 8, & 8 Keyed Modular Plugs. (Will not work on AMPTM RJ-45 Plugs.)

Part No.	Style
24-4681P	Non-Ratchet



Deluxe Modular Crimping Tool Cuts, strips and terminates 2, 4, 6, 8, and 8 Keyed, 10, DEC 4 & 6 and 4 Conductor Handset Plugs. (Works on AMPTM RJ-45 Plugs only.)

Part No.	Style
24-7865P	Non-Ratchet



Economy Modular RJ-45 Crimping Tool Cuts, strips and terminates 8 & 8 Keyed Modular Plugs.

Part No.	Style
24-7748P	Non-Ratchet

Modular Tools (continued)



Pro-Series Impact Punch Down Tool
Has a 66 & 110 Blade, a Twist Lock Mechanism, and Adjustable Impact Control.

Part No.
24-418P



LANtest Remote Cable Tester
Tests Pinout & Continuity for 4,6 & 8 pin USOC, RJ-45 568 A&B and Thinnet BNC Connections.

Part No.
24-517

Modular Surface Mount Boxes



Single Port Surface Mount Box
Category 4 Screw Termination, Bottom Entry Wiring

Part No.	Color	Pins
32-2034	Ivory	4
32-2034W	White	4
32-2036	Ivory	6
32-2036W	White	6
32-2038	Ivory	8
32-2038W	White	8



Category 5E Surface Mount Boxes
PC Board Design, RJ-45/110 IDC, EIA 568A & 568B Termination, Plastic Housing

Part No.	Ports	Color	Pins
30-5298ABW	2 Port	White	8
30-5198ABW	1 Port	White	8



Dual Cat4 RJ-45 Surface Box
4 or 8 Conductor Screw Termination, 24-26 AWG, Solid Wire

Part No.	Color	Pins	Termination
32-2234	Ivory	4	8 Screws
32-2234W	White	4	8 Screws

Modular Telephone Wallplates



Single Port Category 4 Telephone Wallplate
Smooth Finish. RoHS compliant.

Part No.	Color	Pins
32-1205	Ivory	4
32-1205W	White	4

DC Blocking Coupler



Part No.
25-7901

DC Voltage Blocking Coupler
Blocks DC and Low Frequency AC Power-Bandwidth: DC to 1 GHz, Return loss 25db, (M) to (F).

CATV/SATV Accessories



Plastic Cable Clips with Mounting Nail.

Part No.	Size	Style	Color
25-7250	RG-59	Single	White
25-7260	RG-59	Single	Black
25-7251	RG-6	Single	White
25-7261	RG-6	Single	Black



COAX Seal
1/2" x 60" Moldable plastic. Seals fittings from moisture, Sold in 12 packs

Part No.
25-7955



With such a large complement of connectors to offer, it is only fitting that you'll find an equally complete offering of AIM-Cambridge line from Emerson termination tools. This line of products includes both ratchet and non-ratchet crimp tools for coaxial, modular plugs, and D-Sub connectors. In addition, you will find a wide array of cable strippers, cutters, impact and nonimpact punch down tools, and a variety of multi-meters, cable testers and termination tool kits to meet your needs.

Cable Tester Kits



Part No.
24-517

LAN & Modular Cable Tester

This tester is designed to quickly read the correct pin configuration of 10/100 Base-T Cable (Cat 5/5E/6), 10 Base-2 Cable (coax), USOC RJ-45/RJ-11 Modular Cables, 356A, EIA/TIA-568A/B and Token Ring cables. With the remote terminator it can test cables installed up to 1,000 feet away through wall-plates and patch panels. It features auto or manual scan with pin-out LED indicators, it verifies cable continuity, opens, shorts, and reversed pairs, and it can check the cable ground. In addition, a power switch is provided for conserving battery power, and it comes standard with a handy carrying case.

Tester Package Includes:

- (2) BNC Adapter Cables, 15 cm
- (1) BNC Adapter (M) to (M)
- (1) 6" RJ-45 Modular Cable
- (1) Deluxe Carrying Bag

Pro-Series 110 & 66 Impact Punch Down Tools



Part No.
24-418P

Pro-Series Impact Punch Down Tool includes two blades. A 66 standard with a 110 installed in the handle. It has a Twist Blade Locking Mechanism, and an adjustable "Hi-Lo" Impact Control. (Replacement Blades are interchangeable with Harris™ Blades.)

Non-Impact Punch Down Tools



Part No.
24-410P

Non-Impact Punch Down Tool for 66 & 110 type terminations (punch only) with a reversible blade, 66 on one end and 110 on the other end.



Part No.
24-411P

Non-Impact Punch Down Tool for 66 type terminations (punch & cut) with a reversible blade, 66 punch on one end and a 66 cut on the other end.

Modular Plug Crimping Tools



Modular Crimping Tool that cuts, strips and terminates 4, 6, 8, & 8 Keyed Modular Plugs. (Works on AMP™ & Stewart™ Plugs.)

Non-Ratchet No.
24-4680P



Modular Crimping Tool that cuts, strips and terminates 2, 4, 6, 8, & 8 Keyed Modular Plugs. (Will not work on AMP™ Plugs.)

Non-Ratchet No.	w/Ratchet No.
24-4681P	24-4682P



Deluxe Modular Crimping Tool that cuts, strips and terminates 2, 4, 6, 8, and 8 Keyed, 10, DEC 4 & 6 and 4 Conductor Handset Plugs. (Works on AMP™ RJ-45 Plugs only.)

w/Ratchet No.
24-7865P



Economy Modular RJ-45 Crimping Tool that cuts, strips and terminates 8 & 8 Keyed Modular Plugs.

Blister No.
24-7748P

See our wide selection of Modular plugs on page 33

D-Sub Crimping & Termination Tools



Modular Crimping Tool that cuts, strips and terminates 4, 6, 8, & 8 Keyed Modular Plugs. (Works on AMP™ & Stewart™ Plugs.)

Blister No.

24-8644P



D-Sub Full Cycle Ratchet Crimping Tool with Tension Adjustment Wheel, crimps 18-22 & 24-30 AWG, Non-Insulated Open Barrel Connectors, D-Sub Contacts.

Blister No.

24-8645P



D-Sub Crimping Tool for Precision Machined Contacts, 4 Way Indent, Crimps 20-26 AWG with Built-in Contact Locator.

Blister No.

24-8643P



Insulated Terminal Ratchet Crimping Tool Crimps 10-22 AWG fully insulated terminals in an ovalized crimp.

Blister No.

24-8622P



D-Sub Non-Ratchet Crimp Tool Crimps Non-Insulated Open Barrel Connectors & Contacts.

Blister No.

24-7373P

See our wide selection of
D-Sub components on pages 21

D-Sub Insertion Tools



Standard D-Sub Insertion & Extraction Tool

Part No.

40-9865

Heavy Duty "F" Hex Crimping Tools



Deluxe Hex Crimping Tool for RG-8, 11 & 213. Hex Sizes: .10", .322", .448"

Blister No.

24-7711P



Deluxe Hex Crimping Tool for large O.D. Cables, RG-6, RG-11 & UHF RG-8. Hex Sizes: .102", .359", .406"

Blister No.

24-7712P



Deluxe Hex Crimping Tool for large O.D. Cables, RG-6 & RG-59. Economy packaged in non-retail box. Hex Sizes: .255", .322"

Blister No.

24-7710



Deluxe Hex Crimping Tool for RG-6 & RG-59, retail packaged with (10) No. 25-7030 'F-59ALM'. Connectors with attached 1/2" Gripped Ring. Hex Sizes: .255", .322"

Blister No.

24-7710P

Universal Coaxial Crimping Tools



Universal Ratchet Crimping Tool for BNC, TNC & Mini UHF. Five crimp sizes for Pins & Connector Ferrules. Crimps 2 & 3 piece Connectors. Features adjustable crimp pressure and quick release safety latch.

Blister No.

24-9960P

Hex Size	Use For
.068"	Center Conductor (16-22 AWG)
.100"	Center Conductor (10-13 AWG)
.213"	Ferrule for RG-58/59TFE/141/303/55/142/233/400
.255"	Ferrule for RG-59/62/140/210/Belden 8279
.324"	Ferrule for RG-6/143/212/222/Belden 8281, 9231, 9141



'F' Ratchet Crimping Tool Crimps RG-59, RG-6, and RG-Quad Shield 'F' type CATV connectors. Features adjustable crimp pressure and quick release safety latch. Hex Sizes: .255", .324", .354"

Blister No.

24-8866P

Offset Ratched Crimping Tools



Ratchet Crimping Tool for 3-Piece Crimp Connectors. Offset die with 3 crimp sizes for Pins & Connector Ferrule including RG-58 & 59TFE Cable. Features adjustable crimp pressure and quick release safety latch.

Part No.

24-8860P

Hex Size	Use For
.060"	Center Conductor
.210"	Ferrule for RG-58/141/303/55/142/233/400
.255"	Ferrule for RG-59/62/140/210/Belden 8279

Standard Series Ratched Crimping Tools



This series of tools offers a wide selection of interchangeable dies, a high quality steel frame with a full cycle ratchet mechanism and a quick release safety latch. All are blister packaged for retail display.

Tool Part No.	Cable Size	Description	Hex Size
24-328P	RG-58, RG-161, RG-178, RG-174, RG-182, RG-188, RG-316	SMA, SMB, Fiber	.043", .069", .100", .128", .151", .210"
24-8856P	RG-6, RG-8, RG-59, RG-62	Crimps BNC-TNC 3 pc. Connectors with standard rings	.390", .275", .065"
24-8857P	RG-58, RG-58AU, RG-139, RG-185, RG-188, RG-316	Crimps BNC-TNC 3 pc. Connectors with standard rings	.235", .128", .065"
24-8858P	RG-58, RG-58AU, RG-59	Crimps BNC-TNC Teflon, RG-62 Teflon & 3 pc. Connectors also crimps 1/2" ring 'F' Connectors	.325", .210", .065"
24-8859P	RG-59, RG-62, Belden 8281	Crimps BNC-TNC 2 & 3 pc. Connectors with standard & dual crimp rings	.325", .258", .066"
24-8789P	RG-58, RG-59, RG-62, RG-58TFE, RG-59TFE, RG-62TFE	Crimps BNC & TNC 2 & 3 pc. Connectors. with standard crimp rings by AMP, Kings and Amphenol	.257", .210", .060"
24-9858P	RG-58, RG-59TFE	Crimps 2 pc. BNC & TNC Connectors	.320", .211"
24-9859P	RG-59, RG-62	Crimps 2 pc. BNC & TNC Connectors	.320", .250"
24-9958P	RG-58, RG-58TFE, RG-59TFE, RG-141TFE, RG-142, RG-223, RG-400, RG-303, RG-55	Crimps 3 pc. BNC-TNC & Mini-UHF Connectors	.213", .060"
24-9959P	RG-59, RG-62, RG-450	Crimps 3 pc. BNC-TNC Proflex, RG-8X & Mini-UHF Connector	.255", .060"
24-9912P	RG-122, 180, 34M, RG-195, 8218, RG-174, 188, RG-179, 187, 316	Crimps 3 pc. BNC-TNC Connectors	.184", .060"
24-8644P	Open Barrel Crimper, V.35 Contacts, 10-22 AWG	Crimps open barrel Non-insulated Connectors, D-sub, Mini pins & sockets	-----

Self-Adjusting Coax Strippers



2-Step Cable Stripper with self-adjusting replacement blades for RG-6, 58, 59 & 62.

Blister No.	Blades No.
24-7732P	99-7732B



3-Step Cable Stripper with self-adjusting replacement blades for RG-6, 58, 59 & 62.

Blister No.	Blades No.
24-7733P	99-7733B

3-Step Coax Strippers



3-Step Cable Stripper with adjustable replacement blades for standard & Teflon RG-58, 59 & 62.

Blister No.	Blades No.
24-7737P	99-7737



3-Step Cable Stripper with adjustable replacement blades for standard & Teflon RG-59, RG-6 & Belden 8281.

Blister No.	Blades No.
24-7738P	99-7738



3-Step Cable Stripper with non-adjustable replacement blades RG-8, 11 & 213.

Blister No.	Blades No.
24-7739P	99-7739

2-Step Coax Strippers



2-Step Cable Stripper with adjustable replacement blades for standard & Teflon RG-58, 59 & 62.

Blister No.	Blades No.
24-7735P	99-7735



2-Step Cable Stripper with adjustable replacement blades for standard & Teflon RG-59, RG-6 & Belden 8281.

Blister No.	Blades No.
24-7736P	99-7735



Universal 2-Step Cable Stripper with adjustable replacement blades for RG-6, 58, 59 & 62.

Blister No.	Blades No.
24-7734P	99-7734

Tool & Work Bench Accessories



Alligator Clip Jumpers 2-ft. lengths, 26 AWG, 5 Colors (2 per Color)

Part No.
46-400

Product Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
30-5198ABW	44	32-1204W	44	40-8315M	28	40-9750M	28
30-5298ABi	44	32-1205	44	40-8325M	28	40-9750S	28
30-5298ABW	44	32-1205W	44	40-8325S	28	40-9809M	26
30-5620	43	32-1214	44	40-8425M	28	40-9809S	26
30-5624	43	32-1214W	44	40-9415HDM	26	40-9815M	26
30-5648	43	32-1224	44	40-9415HDS	26	40-9815S	26
30-5648-12	43	32-1224W	44	40-9428F	27	40-9825M	26
30-5696	43	32-1414	35	40-9428M	27	40-9825S	26
30-5760	43	32-1434	35	40-9509M	28	40-98440F	27
30-5765	43	32-1454	35	40-9509S	28	40-98440F-C	27
30-6PP15	35	32-2034	44	40-9515HDM	28	40-98440M	27
30-6PP25	35	32-2034W	44	40-9515HDS	28	40-98440M-C	27
30-6PP7	35	32-2036	44	40-9515M	28	40-98441M-C	27
30-7422AB	43	32-2036W	44	40-9515S	28	40-98442F	27
30-7424AB	43	32-2038	44	40-9525M	28	40-98442F-C	27
30-7448AB	43	32-2038W	44	40-9525S	28	40-98443N	27
30-8412AB	43	32-2044	44	40-9526HDM	28	40-98443N-C	27
30-8PP7	44	32-2044W	44	40-9526HDS	27	40-9844T	27
30-9242	41, 42	32-2058UL	40	40-9528F	27	40-9844T-C	27
30-9344B	41, 42	32-2098UL	40	40-9528M	29	40-9844T-M	27
30-9506-29	32	32-2198UL	40	40-9531	27	40-9844T-M	27
30-9506-77	33	32-2234	44	40-9533	27	40-9844T-M	27
30-9506-88	31	32-2234W	44	40-9535	27	40-9844T-M	27, 53
30-9506-99	31	32-2234W	44	40-9536F	29	40-9844T-M	27
30-9506CC	31	32-2900BK	40	40-9536M	29	40-9844T-M	27
30-9506MC	31	32-2900BU	40	40-9538F	29	40-9844T-M	27
30-9506MF	31	32-2900GN	40	40-9538M	29	40-9844T-M	27
30-9506MM	31	32-2900GY	40	40-95441M	27	40-9844T-M	27
30-9510-29	32	32-2900RE	40	40-9558F	29	40-9844T-M	27
30-9510-77	33	32-2900WH	40	40-9558M	29	40-9844T-M	27
30-9510-88	31	32-2900YE	40	40-9558S	29	40-9844T-M	27
30-9510-99	33	32-5001	41	40-9578M	26	40-9844T-M	27
30-9510CC	31	32-5002	41	40-9586F	29	40-9844T-M	27
30-9510MC	31	32-5003	41	40-9586M	29	40-9844T-M	27
30-9510MF	31	32-5003	41	40-9588F	29	40-9844T-M	27
30-9510MM	31	32-5910UL	40	40-9588M	29	40-9844T-M	27
30-9516	32	32-5954UL	40	40-9709HG	26	40-9844T-M	27
30-9520	32	32-5956UL	40	40-9709HM	29	40-9844T-M	27
30-9521	32	32-5958UL	40	40-9709HMG	26	40-9844T-M	27
30-9525MC	32	32-5964UL	40	40-9709HMG	26	40-9844T-M	27
30-9525MF	32	32-5964UL	40	40-9709HMG	26	40-9844T-M	27
30-9525MM	31	32-9941UL	40	40-9709HMG	26	40-9844T-M	27
30-9530	32	32-9964UL	40	40-9709HMG	26	40-9844T-M	27
30-9531	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9532	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9533	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9534	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9535	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9537	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9538	32	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9575-2	31	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9585-2	31	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
30-9585-4	31	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1004	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1004W	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1006	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1014	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1014W	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1016	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1016W	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1018	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1018W	41	32-9981UL	40	40-9709HMG	26	40-9844T-M	27
32-1204	44	32-9981UL	40	40-9709HMG	26	40-9844T-M	27

FFPO
Page numbers will need to be updated

Product Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
612QQGP	35	6SVHS-6P	36	CPAD240	12	CPMC7810	5
615FFGP	35	73-6210FF-yyy	37	CPAD243	12	CPMC7818	5
615FFPB	35	73-6210MF-yyy	37	CPAD250	13	CPMC782	5
625BBP	35	73-6210MM-yyy	37	CPAD300	10, 14	CPMC783	5
625FFP	35	73-6220FF-yyy	37	CPAD302	12, 14	CPMC785	5
6-25FFP	35	73-6220MF-yyy	37	CPAD305	12, 14	CPMC881	9
625FFPB	35	73-6220MM-yyy	37	CPAD306	14	CPMC8810	9
6-25FFPB	35	73-6230FF-yyy	37	CPAD355	14	CPMC8811	9
6-3FFP	35	73-6230MF-yyy	37	CPAD356	14	CPMC8813	9
6-3FFPB	35	73-6230MM-yyy	37	CPAD500	10, 13	CPMC8817	9
650BBP	35	73-6300-yyy	36	CPAD501	10	CPMC8818	9
650FFP	35	73-6310-yyy	36	CPAD502	10	CPMC8819	9
650FFPB	35	73-6311-yyy	36	CPAD503	10	CPMC882	9
65-3006	32	73-6312-yyy	36	CPAD505	10	CPMC8826	9
65-3010	32	73-6313-yyy	36	CPAD506	10	CPMC883	9
65-3015	32	73-6314-yyy	36	CPAD507	10, 15	CPMC885	9
65-403P	32	73-6340-yyy	36	CPAD508	10, 15	CPN1	11
65-9580	40	73-6353-yyy	36	CPAD509	10, 15	CPN17	11
65-9581	40	73-6354-yyy	36	CPAD510	10, 15	CPN17	11
65-9582	40	73-6360-10	30	CPAD511	10	CPN17	11
65-9583	40	73-6360-6	30	CPAD801	11	CPN17	11
65-9584	40	73-6360-6	30	CPAD806	10, 11	CPN17	11
65-9585	40	73-6360-6	30	CPAD807	10, 11	CPN17	11
65-9586	40	73-6360-6	30	CPAD808	11, 13	CPN17	11
65-9587	40	73-6360-6	30	CPAD809	11	CPN17	11
65-9588	40	73-6360-6	30	CPAD810	11	CPN17	11
65-9589	40	73-6360-6	30	CPAD811	11	CPN17	11
65-9680	40	73-6360-6	30	CPAD851	11	CPN17	11
65-9681	40	73-6360-6	30	CPF111/5	17	CPN17	11
65-9682	40	73-6360-6	30	CPF11A	17	CPN17	11
65-9683	40	73-6360-6	30	CPF14	17	CPN17	11
65-9684	40	73-6360-6	30	CPF5A	17	CPN17	11
65-9685	40	73-6360-6	30	CPF5ALMWF	16	CPN17	11
65-9686	40	73-6360-6	30	CPF56ALS	16	CPN17	11
65-9687	40	73-6360-6	30	CPF56ALX	16	CPN17	11
65-9688	40	73-6360-6	30	CPF591/2	17	CPN17	11
65-9689	40	73-6360-6	30	CPF591/1	17	CPN17	11
65-TF224M	40	73-6360-6	30	CPF59A	17	CPN17	11
65-TF226M	40	73-6360-6	30	CPF59ALM	17	CPN17	11
65-TF228M	40	73-6360-6	30	CPF59ALX	17	CPN17	11
65-TF254C	40	73-6360-6	30	CPF61SE	18	CPN17	11
65-TF256C	40	73-6360-6	30	CPF61SR	18	CPN17	11
65-TF258C	40	73-6360-6	30	CPF81	18	CPN17	11
65-TF264M	40	73-6360-6	30	CPF81L	18	CPN17	11
65-TF266M	40	73-6360-6	30	CPF81NW	18	CPN17	11
65-TF268M	40	73-6360-6	30	CPF156	16	CPN17	11
666FFPB	35	73-6360-6	30	CPFIUG782	6	CPN17	11
6-6FFP	35	73-6360-6	30	CPFIUG785	6	CPN17	11
6-6FFPB	35	73-6360-6	30	CPFIUG792	6	CPN17	11
6706P	33	73-6360-6	30	CPFIUG881	8	CPN17	11
6712P	33	73-6360-6	30	CPFIUG8810	8	CPN17	11
6725P	33	73-6360-6	30	CPFIUG882	8	CPN17	11
675BBP	35	73-6360-6	30	CPFIUG884	8	CPN17	11
675FFP	35	73-6360-6	30	CPFIUG885	8	CPN17	11
675FFPB	35	73-6360-6	30	CPFIUG892	8	CPN17	11
6803P	33	73-6360-6	30	CPFNW	18	CPN17	11
6806P	33	73-6360-6	30	CPL2591	13	CPN17	11
6812P	33	73-6360-6	30	CPL2592	13	CPN17	11
6825P	33	73-6360-6	30	CPL2598	13	CPN17	11
6SVHS-10P	36	73-6360-6	30				
6SVHS-15P	36	73-6360-6	30				
6SVHS-25P	36	73-6360-6	30				
6SVHS-50P	36	73-6360-6	30				

FFPO
Page numbers will need to be updated

Manufacturer Cross Reference

AIM	Cambridge	Page	AIM	Cambridge	Page	AIM	Cambridge	Page
25-2200	CPAD151	19	26-8016	CPAD809	11	28-74307	CPAD755	6
25-2203	CPAD153	19	26-8017	CPAD807	10, 11	28-81507	CPAD703	6
25-7010	CPF591/4	17	26-8018	CPAD806	10, 11	28-84707	CPAD557	6
25-7020	CPF591/2	17	26-8020	CPAD811	11	28-90007	CP782	6
25-7030	CPF59ALM	17	26-8028	CPN1	11	28-90027	CP785	6
25-7031	CPF59ALX	17	26-8029	CPN2	11	28-90097	CP7810	6
25-7032	CPF56ALM	16	26-8031	CPN17	11	28-90507	CPFIUG782	6
25-7033	CPF56ALX	16	26-8033	CPN8/110	11	28-90527	CPFIUG785	6
25-7034	CPF56ALS	16	27-7420	CPAD512	10	28-90537	CPFIUG792	6
25-7036	CPF56ALMZ	16	27-8100	CPAD502	10	28-91007	CPMC782	5
25-7049	CPF59D	17	27-8110	CPAD501	10	28-91027	CPMC785	5
25-7050	CPF59A	17	27-8120	CPAD500	10, 13	28-91037	CPMC7810	5
25-7056	CPF56ALMWP	16	27-8130	CPAD511	10	28-91047	CPMC783	5
25-7066	CPF56WPG	16	27-8140	CPAD505	10	28-91057	CPMC7818	5
25-7100	CPF59T	17	27-8141	CPAD506	10	28-92417	CPMC7820	5
25-7120	CPAD507	10, 15	27-8142	CPAD507	10, 15			
25-7121	CPAD810	15	27-8143	CPAD810	15			
25-7140	CPAD200	13, 19	27-8144	CPAD200	13, 19	29-3855	CPAD708	10, 15
25-7141	CPAD106	19	27-8145	CPAD306	14	29-4010	MINIUF1	12
25-7150	CPAD106/4	16	27-8146	CP1094	12	29-4031	MINIUF2	12
25-7180	CPAD106	16	27-8147	CPAD106	19	29-4033	MINIUF7	12
25-7190	CPAD106	17	27-8148	CPAD106	19	29-4100	CPAD106	12, 14
25-7191	CPAD106	17	27-8149	CPAD106	19	29-4105	CPAD106	12, 14
25-7200	CPAD106	18	27-8150	CPAD521	12	29-4110	CPAD106	12
25-7200L	CPAD106	18	27-8151	CP882	9	29-4113	CPAD106	12
25-7210	CPAD106	18	27-8152	CP881	12, 13	29-4130	CPAD106	12
25-7300	CPAD106	13	27-8153	CP885	12, 13			
25-7306	CPL2598	13	27-9003	CP892	9	29-4150	CPAD509	10, 12
25-7307	CPL2591	13	27-9007	CP8875	8	N/A	CPFIUG884	8
25-7308	CPL2599	13	27-9008	CP88T50	8			
25-7320	CPAD204	13	27-9009	CP88T50	8			
25-7330	CPAD204	13	27-9013	CP88T50	8			
25-7340	CPAD205	13	27-9014	CP891	9			
25-7350	CPAD206	13	27-9022	CPCL881	9			
25-7354	CPAD211	13	27-9050	CPFIUG882	8			
25-7430	CPAD355	14	27-9071	CPFIUG881	8			
25-7500	CPAD516	10	27-9052	CPFIUG885	8			
25-7510	CPAD515	10	27-9053	CPFIUG892	8			
25-7530	CPAD103	19	27-9054	CPFIUG8810	8			
25-7550	CPAD218	13, 19	27-9067	CPAD356	14			
25-7580	CPAD106	19	27-9068	CPAD306	14			
25-7630	CPF61SE	18	27-9069	CPAD355	14			
25-7640	CPF71	18	27-9075	CPAD307	14			
25-7651	CPF61LR	18	27-9100	CPMC882	9			
25-7652	CPF61SR	18	27-9101	CPMC881	9			
25-7680	CPFNW	18	27-9102	CPMC885	9			
26-8000	CPMC8817	9, 11	27-9103	CPMC8810	9			
26-8002	CPAD814	11	27-9104	CPMC883	9			
26-8005	CPN8	11	27-9105	CPMC8819	9			
26-8009	CPAD800	11	27-9205	CPMC8811	9			
26-8010	CPAD850	11	27-9209	CP884	9			
26-8011	CPAD801	11	27-9236	CPMC8813	9			
26-8012	CPAD803	11	27-9254	CPMC8818	9			
26-8014	CPAD805	11, 13	27-9293	CPMC8826	9			
26-8015	CPAD808	11, 13	27-9294	CPAD523	10			

Page numbers will need to be updated

Manufacturer Cross Reference

AIM	Cambridge	Page	AIM	Cambridge	Page	AIM	Cambridge	Page
CP1094U	27-8460	8	CPAD521	27-8471	8	CPFNW	25-7680	18
CP1094UL	27-8460	8	CPAD523	27-9294	10	CPL2591	25-7307	13
CP7810	28-90097	6	CPAD555	25-7430	10	CPL2592	25-7308	13
CP782	28-90007	6	CPAD556M	27-8469	8	CPL2598	25-7306	13
CP785	28-90027	6	CPAD557	28-84707	6	CPMC7810	28-91037	5
CP881	27-9001	9	CPAD703	28-81507	6	CPMC7818	28-91057	5
CP8810	27-9009	9	CPAD755	28-74307	6	CPMC782	28-91007	5
CP882	27-9000	9	CPAD800	26-8009	11	CPMC7820	28-92417	5
CP884	27-9209	9	CPAD801	26-8011	11	CPMC783	28-91047	5
CP885	27-9002	9	CPAD803	26-8012	11	CPMC785	28-91027	5
CP88T50	27-9008	8	CPAD805	26-8014	11, 13	CPMC881	27-9101	9
CP88T75	27-9007	8	CPAD806	26-8018	10, 11	CPMC8810	27-9103	9
CP891	27-9014	9	CPAD807	26-8017	10, 11	CPMC8811	27-9205	9
CP892	27-9003	9	CPAD808	26-8015	11, 13	CPMC8813	27-9236	9
CP895	27-9013	9	CPAD809	26-8016	11	CPMC8817	26-8000	9, 11
CPAD100	27-9010	15	CPAD810	26-8017	11			
CPAD101	27-9010	15	CPAD100	27-9010	15			
CPAD103	27-9010	15	CPAD101	27-9010	15			
CPAD106	27-9010	15	CPAD103	27-9010	15			
CPAD151	27-9010	15	CPAD106	27-9010	15			
CPAD153	27-9010	15	CPAD151	27-9010	15			
CPAD204	27-9010	15	CPAD153	27-9010	15			
CPAD205	27-9010	15	CPAD204	27-9010	15			
CPAD206	27-9010	15	CPAD205	27-9010	15			
CPAD210	27-9010	15	CPAD206	27-9010	15			
CPAD212	27-9010	15	CPAD210	27-9010	15			
CPAD214	27-9010	15	CPAD212	27-9010	15			
CPAD218	27-9010	15	CPAD214	27-9010	15			
CPAD219	27-9010	15	CPAD218	27-9010	15			
CPAD240	27-9010	15	CPAD219	27-9010	15			
CPAD243	27-9010	15	CPAD240	27-9010	15			
CPAD250	27-9010	15	CPAD243	27-9010	15			
CPAD259	27-9010	15	CPAD250	27-9010	15			
CPAD300	27-9010	15	CPAD259	27-9010	15			
CPAD302	27-9010	15	CPAD300	27-9010	15			
CPAD305	27-9010	15	CPAD302	27-9010	15			
CPAD306	27-9010	15	CPAD305	27-9010	15			
CPAD307	27-9010	15	CPAD306	27-9010	15			
CPAD355	27-9010	15	CPAD307	27-9010	15			
CPAD356	27-9010	15	CPAD355	27-9010	15			
CPAD500	27-9010	15	CPAD356	27-9010	15			
CPAD501	27-9010	15	CPAD500	27-9010	15			
CPAD502	27-9010	15	CPAD501	27-9010	15			
CPAD503	27-9010	15	CPAD502	27-9010	15			
CPAD505	27-9010	15	CPAD503	27-9010	15			
CPAD506	27-9010	15	CPAD505	27-9010	15			
CPAD507	29-3835	10, 15	CPAD506	27-8141	10			
CPAD508	29-3855	10, 15	CPAD507	29-3835	10, 15			
CPAD509	29-4150	10, 12	CPAD508	29-3855	10, 15			
CPAD510	27-8142	10	CPAD509	29-4150	10, 12			
CPAD511	27-8130	10	CPAD510	27-8142	10			
CPAD512	27-7420	10	CPAD511	27-8130	10			
CPAD515	25-7510	10	CPAD512	27-7420	10			
CPAD516	25-7500	10	CPAD515	25-7510	10			
CPAD520	27-8461	8	CPAD516	25-7500	10			
			CPAD520	27-8461	8			

Page numbers will need to be updated

**Emerson Network Power Connectivity Solutions, Inc.,
including its subsidiaries Stratos International, Inc., Trompeter Electronics, Inc., and Semflex, Inc.**

TERMS AND CONDITIONS OF SALE

Emerson Network Power Connectivity Solutions, Inc. is herein referred to as the "Seller" and the customer or person or entity purchasing goods ("Goods") from Seller is referred to as the "Buyer." These Terms and Conditions, any price list or schedule, quotation, acknowledgment or invoice from Seller relevant to the sale of the Goods and all documents incorporated by specific reference herein or therein, constitute the complete and exclusive statement of the terms of the agreement governing the sale of Goods by Seller to Buyer. Buyer's acceptance of the Goods will manifest Buyer's assent to these Terms and Conditions. Seller reserves the right in its sole discretion to refuse orders.

1. PRICES: Unless otherwise specified in writing by Seller, the price quoted or specified by Seller for the Goods shall remain in effect for thirty (30) days after the date of Seller's quotation or acknowledgment of Buyer's order for the Goods, whichever occurs first, provided an unconditional authorization from Buyer for the shipment of the Goods is received and accepted by Seller within such time period. If such authorization is not received by Seller within such thirty (30) day period, Seller shall have the right to change the price for the Goods to Seller's price for the Goods at the time of shipment. All prices are exclusive of taxes, transportation and insurance, which are to be borne by Buyer.

2. TAXES: Any current or future tax or governmental charge (or increase in same) affecting Seller's costs of production, sale, or delivery or shipment, or which Seller is otherwise required to pay or collect in connection with the sale, purchase, delivery, storage, processing, use or consumption of Goods, shall be for Buyer's account and shall be added to the price.

3. TERMS OF PAYMENT: Unless otherwise specified by Seller, terms are net thirty (30) days from date of Seller's invoice in U.S. currency. Seller shall have the right, among other remedies, either to terminate this agreement or to suspend further performance under this and/or other agreements with Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts. If any payment owed to Seller is not paid when due, it shall bear interest, at a rate to be determined by Seller, which shall not exceed the maximum rate permitted by law, from the date on which it is due until it is paid. Should Buyer's financial responsibility become unsatisfactory to Seller, cash payments or security satisfactory to Seller may be required by Seller for future deliveries and for the Goods theretofore delivered. If such cash payment or security is not provided, in addition to Seller's other rights and remedies, Seller may discontinue deliveries.

4. SHIPMENT AND DELIVERY: While Seller will use all reasonable commercial efforts to maintain the delivery date(s) acknowledged or quoted by Seller, all shipping dates are approximate and not guaranteed. Seller reserves the right to make partial shipments. Seller, at its option, shall not be bound to tender delivery of any Goods for which Buyer has not provided shipping instructions and other required information. If the shipment of the Goods is postponed or delayed by Buyer for any reason, Buyer agrees to reimburse Seller for any and all storage costs and other additional expenses resulting therefrom. Risk of loss and legal title to the Goods shall transfer to Buyer for sales in which the end destination of the Goods is outside of the United States immediately after the Goods have passed beyond the territorial limits of the United States. For all other shipments, risk of loss for damage and responsibility shall pass from Seller to Buyer upon delivery to and receipt by carrier at Seller's shipping point. All shipments are F.O.B. Seller's shipping point. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by Buyer directly to the carrier.

Shortages or damages must be identified and signed for at the time of delivery. Buyer shall inspect Goods delivered to it by Seller immediately upon receipt, and, any course of dealing to the contrary notwithstanding, failure of Buyer to give Seller notice of any claim within 30 days after receipt of such Goods shall be an unqualified acceptance of such Goods.

5. LIMITED WARRANTY: Subject to the limitations of Section 6, Seller warrants that the Goods manufactured by Seller will be free from defects in material and workmanship under normal use and regular service and maintenance for a period of one year from the date of shipment of the Goods by Seller, unless otherwise specified by Seller in writing. **THIS IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY SELLER WITH RESPECT TO THE GOODS AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND**

WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE.

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than Seller's), unauthorized modification or alteration, use beyond rated capacity, unsuitable power sources or environmental conditions, improper installation, repair, handling, maintenance or application or any other cause not the fault of Seller. To the extent that Buyer or its agents has supplied specifications, information, representation of operating conditions or other data to Seller in the selection or design of the Goods and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

If within thirty (30) days after Buyer's discovery of any warranty defects within the warranty period, Buyer notifies Seller thereof in writing, Seller shall, at its option and as Buyer's exclusive remedy, repair, correct or replace F.O.B. point of manufacture, or refund the purchase price for, that portion of the Goods found by Seller to be defective. Failure by Buyer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. All costs of dismantling, reinstallation and freight and the time and expense of Seller's personnel and representatives for site travel and diagnosis under this warranty shall be borne by Buyer unless accepted in writing by Seller. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days from the date of shipment, whichever is longer.

Buyer assumes all other responsibility for any loss, damage, or injury to persons or property arising out of, connected with, or resulting from the use of Goods, either alone or in combination with other products/components.

Section 5 applies to any entity or person who may buy, acquire or use the Goods, including any entity or person who obtains the Goods from Buyer, and shall be bound by the limitations therein, including Section 6. Buyer agrees to provide such subsequent transferee conspicuous, written notice of the provisions of Sections 5 and 6.

6. LIMITATION OF REMEDY AND LIABILITY: THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER OTHER THAN THE WARRANTY PROVIDED UNDER SECTION 7 SHALL BE LIMITED TO REPAIR, CORRECTION OR REPLACEMENT, OR REFUND OF THE PURCHASE PRICE UNDER SECTION 5.

SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND THE REMEDIES SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE PAID BY BUYER FOR THE SPECIFIC GOODS PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. BUYER AGREES THAT IN NO EVENT SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment.

Buyer expressly acknowledges and agrees that Seller has set its prices and entered into this agreement in reliance upon the limitations of liability and other terms and conditions specified herein, which allocates the risk between Seller and Buyer and form a basis of this bargain between the parties.

It is expressly understood that any technical advice furnished by Seller with respect to the use of the Goods is given without charge, and Seller assumes no obligation or liability for the advice given, or results obtained, all such advice being given and accepted at Buyer's risk.

7. PATENTS AND COPYRIGHTS: Subject to the limitations of the second paragraph of Section 6, Seller warrants that the Goods sold, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid U.S. patent or copyright in existence as of the date of shipment. This warranty is given upon the condition that Buyer promptly notify Seller of any claim or suit involving Buyer in which such infringement is al-

leged and cooperate fully with Seller and permit Seller to control completely the defense, settlement or compromise of any such allegation of infringement. Seller's warranty as to use patents only applies to infringement arising solely out of the inherent operation according to Seller's specifications and instructions (i) of such Goods, or (ii) of any combination of Goods acquired from Seller in a system designed by Seller. In the event such Goods are held to infringe such a U.S. patent or copyright in such suit, and the use of such Goods is enjoined, or in the case of a compromise or settlement by Seller, Seller shall have the right, at its option and expense, to procure for Buyer the right to continue using such Goods, or replace them with non-infringing Goods, or modify same to become non-infringing, or grant Buyer a credit for the depreciated value of such Goods and accept return of them. In the event of the foregoing, Seller may also, at its option, cancel the agreement as to future deliveries of such Goods, without liability.

8. EXCUSE OF PERFORMANCE: Seller shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer; war; fire; flood; weather; sabotage; strikes or labor disputes; civil disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or any events or causes beyond Seller's reasonable control. Deliveries or other performance may be suspended for an appropriate period of time or canceled by Seller upon notice to Buyer in the event of any of the foregoing, but the balance of the agreement shall otherwise remain unaffected as a result of the foregoing.

If Seller determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is hindered, limited or made impracticable due to causes set forth in the preceding paragraph, Seller may allocate its available supply of the Goods or such material without obligation to acquire other supplies of any such Goods or material among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

9. CANCELLATION: Unless otherwise agreed in writing by Seller, orders under this agreement may not be canceled by Buyer for any reason.

10. CHANGES: Buyer may request changes or additions to the Goods consistent with Seller's specifications and criteria. In the event such changes or additions are accepted by Seller, Seller may revise the price and dates of delivery.

Seller reserves the right to change designs and specifications for the Goods without prior notice to Buyer, except with respect to Goods being made-to-order for Buyer. Seller shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.

11. NUCLEAR/MEDICAL. GOODS AND SERVICES SOLD HEREUNDER ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFESUPPORT AND RELATED APPLICATIONS. Buyer accepts goods and services with the foregoing understanding, agrees to communicate the same in writing to any subsequent purchasers or users and to defend, indemnify and hold harmless Seller from any claims, losses, suits, judgments and damages, including incidental and consequential damages, arising from such use, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability.

12. BUYER'S COMPLIANCE WITH LAWS: In connection with the transactions contemplated by this agreement, Buyer is familiar with and shall fully comply with all applicable laws, regulations, rules and other requirements of the United States and of any applicable state, foreign and local governmental body in connection with the purchase, receipt, use, transfer and disposal of the Goods.

13. EXPORT/IMPORT: Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States and the European Union, and the jurisdictions in which the Seller and Buyer are established or from which Goods and Services may be supplied, will apply to their receipt and use. In no event shall Buyer use, transfer, release, import, export, Goods in violation of such applicable laws, regulations, orders or requirements.

14. TOOLING: Tool, die, and pattern charges, if any, are in addition to the price of the Goods and are due and payable upon completion of the tooling. All such tools, dies and patterns shall be and remain the property of Seller. Charges for tools, dies, and patterns do not convey to Buyer, title, ownership interest in, or rights to possession or removal, or prevent their use by Seller for other purchasers, except as otherwise expressly provided by Seller and Buyer in writing with reference to this provision.

15. RETURNED GOODS: Except as otherwise provided with respect to warranty defects in Section 5, advance written permission to return Goods must be obtained from Seller's customer service department. Such Goods must be

current, unused, catalogued Goods and must be shipped, transportation prepaid, to the Seller's specified return location. Returns made without proper written permission will not be accepted by Seller. Credit or exchange for such returned Goods will be at the billing price or current price, whichever is lower, from which will be deducted an inspection, restocking and repacking charge and the cost of any reconditioning. Seller reserves the right to inspect Goods prior to authorizing return.

16. BUYER SUPPLIED DATA: To the extent that Seller has been provided by or on behalf of Buyer any specifications, description of operating conditions or other data and information in connection with the selection or design of the Goods, and the actual operating conditions or other circumstances differ from those provided by Buyer and relied upon by Seller, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

17. SOFTWARE¹: Notwithstanding any other provision herein to the contrary, Seller or applicable third party licensor to Seller shall retain all rights of ownership and title in its respective Software, including without limitation all rights of ownership and title in its respective copies of such Software. Except as otherwise provided herein, Buyer is hereby granted a nonexclusive, non-transferable royalty free license to use the Software incorporated into the Goods solely for purposes of Buyer properly utilizing such Goods purchased from Seller. All other Software shall be furnished to, and used by, Buyer only after execution of Seller's (or the licensor's) applicable standard license agreement, the terms of which are incorporated herein by reference.

18. DRAWINGS: Seller's prints and drawings (including without limitation, the underlying technology) furnished by Seller to Buyer in connection with this agreement are the property of Seller and Seller retains all rights, including without limitation, exclusive rights of use, licensing and sale. Possession of such prints or drawings does not convey to Buyer any rights or license, and Buyer shall return all copies (in whatever medium) of such prints or drawings to Seller immediately upon request therefore.

18. ASSIGNMENT: Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Seller, and any such assignment, without such consent, shall be void.

19. GENERAL PROVISIONS: These terms and conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of these terms and conditions. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions shall be binding upon the Seller unless made in writing and signed on its behalf by a duly authorized representative of Seller. No conditions, usage of trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification or additional terms shall be applicable to this agreement by Seller's receipt, acknowledgment, or acceptance of purchase orders, shipping instruction forms, or other documentation containing terms at variance with or in addition to those set forth herein. Any such modifications or additional terms are specifically rejected and deemed a material alteration hereof. If this document shall be deemed an acceptance of a prior offer by Buyer, such acceptance is expressly conditional upon Buyer's assent to any additional or different terms set forth herein. No waiver by either party with respect to any breach or default or of any right or remedy, and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver be expressed in writing and signed by the party to be bound. All typographical or clerical errors made by Seller in any quotation, acknowledgment or publication are subject to correction.

The validity, performance, and all other matters relating to the interpretation and effect of this agreement shall be governed by the law of the state of Missouri. Buyer and Seller agree that the proper venue for all actions arising in connection herewith shall be only in Missouri and the parties agree to submit to such jurisdiction. No action, regardless of form, arising out of transactions relating to this contract, may be brought by either party more than two (2) years after the cause of action has accrued. The U.N. Convention on Contracts for the International Sales of Goods shall not apply to this agreement.

¹ Note the definition of "Software" includes "firmware." (Revision 7/2009)

Emerson Network Power Connectivity Solutions

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About Emerson Network Power Connectivity Solutions

Emerson Network Power Connectivity Solutions, an Emerson business, serves the needs of wireless communications, military, telephony and data networks, CATV security systems, health care and industrial facilities with a full spectrum of RF/microwave and fiber optic connectivity products. For more information, visit www.EmersonConnectivity.com

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