

# MRJ21 Cable Assemblies

Stewart Connector's MRJ21 cable assembly products are designed to support increased patch panel density in telecom and premise wiring applications. This modular cabling platform supports network applications such as Gigabit Ethernet, Voice over Internet Protocol (VoIP), and Power over Ethernet (PoE). Cable connection options include left or right 45 degree angle, or 180 degree straight cable exit to facilitate various routing schemes to component racks. In addition, these cable assemblies allow a connection migration path from legacy products including punch down blocks, modular plug breakouts, and standard RJ21 to MRJ21 assemblies.

Designed with a die cast backshell for shielded applications, Stewart's MRJ21 cable assemblies are durability tested to 500 cycles to ensure unsurpassed quality and performance. Jackscrews provide a secure cable connection while the robust boardlock design allows superior PCB strain relief. For additional product information visit our Ethernet connectivity webpage at [www.stewartconnector.com](http://www.stewartconnector.com).

## Key Features & Benefits

- Suitable for Gigabit Ethernet, PoE and VoIP
- High density telco-style, double-blade design allows 1.5 to 3 times the density of 2x6 modular stacked RJ45 jacks.
- 1mm pair spacing, 1.5 mm pair-to-pair spacing
- Designed to meet or exceed CAT5e performance standards
- Available in both unshielded or low EMI shielded configurations
- Durability tested to 500 cycles – see [www.belfuse.com](http://www.belfuse.com) for data sheet(s)



MRJ21 cable assemblies showing connector options: MRJ21 180 degree straight and 45 degree angle connectors as well as multiple RJ45 connectors.

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Part Number*	Description	Cable Type	Shielding
MRJxxxxAF-A	6 RJ45 Plugs to MRJ21 Angled	CMR	Unshielded
MRJxxxxDD-A	MRJ21 Straight to MRJ21 Straight	CMR	Unshielded
MRJxxxxAD-A	6 RJ45 Plugs to MRJ21 Straight	CMR	Unshielded
MRJxxxxDF-A	MRJ21 Straight to MRJ21 Angled	CMR	Unshielded
MRJxxxxAF-C	6 RJ45 Plugs to MRJ21 Angled	CMP	Unshielded
MRJxxxxDD-C	MRJ21 Straight to MRJ21 Straight	CMP	Unshielded
MRJxxxxAD-C	6 RJ45 Plugs to MRJ21 Straight	CMP	Unshielded
MRJxxxxDF-C	MRJ21 Straight to MRJ21 Angled	CMP	Unshielded

\* xxxx denotes desired cable length from 0.5 to 100.0 meters, in 0.5 meter increments. Typical part numbers are listed. For configurations not shown here, please consult factory.

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Stewart Connector's MRJ21 48-port straight patch panels are designed to be mounted onto a standard 483-mm [19-in.] Electronic Industries Alliance (EIA) rack or equipment cabinet. The Stewart patch panels are available in both 2 pair and 4 pair configurations. The 2 pair option supports speed at 10Base-T and 100 Base-T while the four pair configuration supports higher speeds at 1000 Base-T.

The core of the system is the innovative MRJ21 high density and high performance connector. It integrates reliable connections for up to 6 GigaBit Ethernet (1000Base-T) Channels in one plug & go interface and is therefore supporting fastest installation and highest flexibility. The shielded MRJ21 Trunk Cables are completely pre-terminated and factory tested, eliminating the need for testing after installation. The Trunk Cables interconnect a wide range of shielded MRJ21 Patch Panels, which are available in highest density up to 48 RJ45 Port on 1U. The Panels integrate in the rear side the MRJ21 receptacles and to the front RJ45 interfaces compliant with the latest revisions of the international standards like ISO/IEC 11801, EN 50173 and EIA/TIA 568.



MRJ21 Patch Panel, Standard, 48-Port, for 2-Pair (10/100/ BASE-T) Applications 4-Pair (1000 Base-T) Applications

## Key Features & Benefits

- Suitable for Gigabit Ethernet, PoE and VoIP
- High performance copper cabling solution
- High density, small form factor connectivity
- Modular, pluggable design
- 4 pair MRJ21 patch panels support applications which use four or fewer pairs, Including 10Base-T, 100 Base-T and 1000 Base-T
- 2 pair MRJ21 patch panels support applications which use two or fewer pairs including 10Base-T and 100 Base-T

Part Number	Description
ASY21000-005	48 Port 10/100 Base-T 1U Patch Panel
ASY21000-006	48 Port 10/100/1000 Base-T 1U Patch Panel

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