

# MRJ21<sup>®</sup> Cable Assemblies



## Modular Cabling System Supports Higher Port Density in a Variety of Environments



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

### Features / Benefits

- Dense, telco-style, double-blade design allows 1.5 to 3 times the port density of 2x6 modular stacked RJ45 jacks
- Three times the port density of RJ21 connectors
- Dual-row receptacle meets the requirements of the CompactPCI™ component standard (13.71 mm)
- 1 mm pair spacing, 1.5 mm pair-to-pair spacing
- Contact layout and footprint for differential pairs creates reduced crosstalk and built-in compensation
- Designed to meet or exceed Category 5e performance standards
- Jackscrews for positive latching and secure cable retention
- Robust receptacle board lock design for superior PCB strain relief
- Fully shielded to reduce EMI emissions
- Durability tested to 500 cycles

#### Bel Stewart Connector

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**Bel Stewart's MRJ21<sup>®</sup>** 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 punchdown blocks, modular plug breakouts, and standard RJ21 to MRJ21 assemblies.

Designed with a die cast backshell for future shielded applications, Bel 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.

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## Applications

Designed for use in telecommunication and premise wiring applications that require higher port density and high speed transmission, Bel Stewart's MRJ21<sup>®</sup> cable assemblies are suitable for Gigabit Ethernet, Voice over Internet Protocol (VoIP), and Power over Ethernet (PoE) applications. They are ideal for almost any environment currently using modular plugs including:

- Network closets
- Core routers
- Edge routers
- Digital cross connects
- Gigabit Ethernet switches
- DSLAMs

## Legacy Products Migration Path

MRJ21 cable assemblies support migration schemes for legacy products including:

- Punchdown blocks
- Modular plug breakouts
- Standard RJ21 connectors



## MRJ21 Cable Assembly Variations

Part Number*	Description
MRJxxxxAF-A	6 unshielded RJ45 connectors to 45 degree angle unshielded MRJ21
MRJxxxxDD-A	MRJ21 straight to MRJ21 straight (unshielded)
MRJxxxxAD-A	6 unshielded RJ45 connectors to straight unshielded MRJ21
MRJxxxxDF-A	Straight MRJ21 to 45 degree angle MRJ21 (unshielded)

\* xxxx denotes desired cable length from 0.5 to 100.0 meters, in 0.5 meter increments.

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