

## MATERIALS

- Contact Base Metal: Copper Alloy
- Contact Finish
  - Gold over nickel on separable interface
  - Tin or tin-lead over nickel on press-fit tails
- Housing: High temperature thermoplastic (UL 94V-0)

## MECHANICAL PERFORMANCE

- Durability: 100 mating cycles
- Mating force: 31.2N maximum per 1x2 or 2x2 module
- Unmating force: 9.0N minimum per 1x2 or 2x2 module
- Press-fit insertion force:
  - 67N maximum per individual contact tail

## ELECTRICAL PERFORMANCE

- Voltage rating: 150V DC
- Contact Resistance: 1.0 mΩ maximum
- Current Rating: Maximum amps per contact for different header and receptacle test configurations with dual (double sided) external copper pads of noted weight

## SPECIFICATIONS

- Product Specification: GS-12-220
- Application Specification: GS-20-023
- Safety: UL 60950 & IEC 60950-1 Prevention of Operator Access to Energized Parts

## ENVIRONMENTAL

- Per Central Office requirements, Telcordia GR-1217-CORE

## APPROVALS AND CERTIFICATIONS

- Per Central Office requirements, Telcordia GR-1217-CORE

## PACKAGING

- Tubes

| Receptacle Type              | Number of Connectors<br>Fully Powered | Copper Pad Weight | Maximum Current Per Contact |       |
|------------------------------|---------------------------------------|-------------------|-----------------------------|-------|
|                              |                                       |                   | 1 x 2                       | 2 x 2 |
| Vertical Receptacle<br>(2x2) | 1                                     | 5oz               | 40A                         | 20A   |
|                              | Up to 5 adjacent                      | 5oz               | 32A                         | 14A   |
|                              | 1                                     | 2oz               | 32A                         | 15A   |
|                              | Up to 5 adjacent                      | 2oz               | 27A                         | 12A   |
| R/A Receptacle<br>(2x2)      | 1                                     | 2oz               | 37A                         | 18A   |
|                              | Up to 5 adjacent                      | 2oz               | 29A                         | 14A   |

## PART NUMBERS

|                          | Number of Contacts | Contact Array | Height Above PCB | Part Numbers           |                    |
|--------------------------|--------------------|---------------|------------------|------------------------|--------------------|
|                          |                    |               |                  | Vertical Receptacle    | Right-Angle Header |
| Backplane<br>Application | 2                  | 1x2           | 14.7mm           | 10028916-xxxxP00LF**   | 10028918-001LF     |
|                          | 4                  | 2x2           | 14.7mm           | 10028916-xxxxP00LF**   | 10028917-001LF     |
|                          | 4                  | 2x2*          | 11.5mm           | 10028916-xxxxP00LF**   | 10073379-001LF     |
|                          | 6                  | 2x3*          | 11.5mm           | 10061290-xxxxxxPLF**   | 10061289-001LF     |
| Co-planar<br>Application |                    |               |                  | Right-Angle Receptacle | Right-Angle Header |
|                          |                    |               |                  | 10052620-P00LF         | 10028918-001LF     |
|                          |                    |               |                  | 10052620-P00LF         | 10028917-001LF     |
|                          |                    |               |                  | 10052620-P00LF         | 10073379-001LF     |

Notes: \* indicates the connector set is compatible with the above-board height of an AirMax VS 3-pair signal connector. The 14.7mm height is compatible with AirMax VS 4- and 5-pair and ZipLine 6-pair signal connectors.

\*\* xxxx and xxxxxx are placeholders for contact mating length combinations. Reference the product drawings for available options.