

Miniature Cylindrical MIL-C-83723, Series III contact information, sealing plugs, crimping and insertion/removal tools

MIL-C-83723, SERIES III CRIMP CONTACTS

| Contact Size | Wire Range | | Socket Contacts | Pin Contacts |
|--------------|------------|-----------------|----------------------|----------------------|
| | AWG | mm ² | Military Part Number | Military Part Number |
| 20 | 24-20 | 0.2-0.6 | M39029/5-115 | M39029/4-110 |
| 16 | 20-16 | 0.5-1.4 | M39029/5-116 | M39029/4-111 |
| 12 | 14-12 | 2-3 | M39029/5-118 | M39029/4-113 |

CONTACT CURRENT RATING AND RETENTION

| Contact Size* | Current Rating | | Contact Retention | |
|---------------|----------------|-------------------------|-------------------|-------|
| | Amperes Max. | Voltage Drop Millivolts | Axial Load | |
| | | | lb. | N |
| 20 | 7.5 | 35 | 20 | 89.0 |
| 16 | 13.0 | 25 | 25 | 111.2 |
| 12 | 23.0 | 25 | 30 | 133.4 |

* Organize individual circuits to maintain heat rise within operating temperature requirements.

SEALING PLUGS

| Contact Size | Sealing Plugs | |
|--------------|----------------------|-----------------------------|
| | Military Part Number | Amphenol/Matrix Part Number |
| 20 | MS27488-20 | 3400-043-0020 |
| 16 | MS27488-16 | 3400-043-0016 |
| 12 | MS27488-12 | 3400-043-0012 |

CRIMPING TOOLS

| Contact Size | Wire Range | | Finished Wire Dia. Range | | Crimping Tool Part Number | Turret or Positioner Part Number |
|--------------|------------|-----------------|--------------------------|-----------|----------------------------|----------------------------------|
| | AWG | mm ² | Inch | mm | | |
| 20 | 24-20 | 0.2-0.6 | .040-.083 | 1.02-2.11 | M22520/1-01 or M22520/2-01 | M22520/1-02 or M22520/2-02 |
| 16 | 20-16 | 0.5-1.4 | .053-.103 | 1.34-2.62 | M22520/1-01 | M22520/1-02 |
| 12 | 14-12 | 2-3 | .097-.158 | 2.46-4.01 | M22520/1-01 | M22520/1-02 |

INSERTION/REMOVAL TOOLS

| Contact Size | Color Code | Military Part Number | Amphenol/Matrix Part Number |
|--------------|--------------|----------------------|-----------------------------|
| 20 | Red/White | M81969/14-11 | 6500-001-0020 |
| 16 | Blue/White | M81969/14-03 | 6500-001-0016 |
| 12 | Yellow/White | M81969/14-04 | 6500-001-0012 |

Note: Each connector is furnished with contacts. One spare for inserts requiring 1 to 26 of each contact, two spares for inserts with more than 26 contacts, and a minimum of one sealing plug up to 10% of the number of contacts.