**Specification Details:** **Date: 4/7/2016**

Specification: MIL-DTL-6193
Title: Joints, Universal, Plain, Light and Heavy Duty
Federal Supply Class (FSC): 3010
Conventional: Yes
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: No
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

**Contact Information:**

Office of Primary Involvement: Electronic Devices Branch, DLA Land and Maritime - VQE
Primary Qualifying Activity Contact: 614-692-0625, e-mail: vqe.rp@dla.mil
Secondary Qualifying Activity Contact: 614-692-0627, e-mail: vqe.ls@dla.mil

**Notes:**

PIN: The PIN consists of the letters MS, the basic specification number, a dash, a letter for type, a number for size, a letter for lubrication cover, and a letter for the plating.

**Part Configuration:**

MS20270A8Z

| MS prefix | Basic Specification Number and Class | Type | Size | Plating |
|---|---|---|---|---|
| MS | 20270 | A | 8 | Z |

**PART LISTINGS**

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|
| ***MS20270 Joint - Universal Plain, Light Duty*** | | | |
| MS20270B6Z | 270B6Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B6 | 270B6 | AMC Memo Report MCREXA 7-4535-10-17 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B8Z | 270B8Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B8 | 270B8 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B10Z | 270B10Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B10 | 270B10 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B12Z | 270B12Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B12 | 270B12 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B14Z | 270B14Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B14 | 270B14 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B16Z | 270B16Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B16 | 270B16 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B20Z | 270B20Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B20 | 270B20 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B14Z | 270B24Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20270B24 | 270B24 | AMC Memo Report, MCREXA 7-4535-10-17, 15 Sept 1950; DD Form 1950, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20270B6 | MS20270B6 | DSCC-VQ (VQE-07-13879) | Belden, Inc. |
| MS20270B6Z | MS20270B6Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |
| ***MS20271 Joint - Universal, Plain, Heavy Duty*** | | | |

| PART LISTINGS | | | |
|---|---|---|---|
| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
| MS20271B6Z | 271B6Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B6 | 271B6 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DD Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, J Jan 1978 | Apex Tool Group, LLC |
| MS20271B8Z | 271B8Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B8 | 271B8 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DD Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B10Z | 271B10Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B10 | 271B10 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DD Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B12Z | 271B12Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B12 | 271B12 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DDk Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B14Z | 27114Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B14 | 271B14 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DD Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B16Z | 271B16Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B16 | 271B16 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DD Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B20Z | 271B20Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B20 | 271B20 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DD Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B24Z | 271B24Z | VQE-13-025944 | Apex Tool Group, LLC |
| MS20271B24 | 271B24 | AMC Memo Report, MCREXA 7-4535-1017, 15 Sep 1950; DDk Form 1718, Cert of Qual Prod; SA-ALC/MMEDO, 4 Jan 1978 | Apex Tool Group, LLC |
| MS20271B8 | MS20271B8 | DSCC-VQ (VQE-07-13879) | Belden, Inc. |
| MS20271B8Z | MS20271B8Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |
| MS20271B10 | MS20271B10 | DSCC-VQ (VQE-07-13879) | Belden, Inc. |
| MS20271B10Z | MS20271B10Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |
| MS20271B12 | MS20271B12 | DSCC-VQ (VQE-07-13879) | Belden, Inc. |
| MS20271B12Z | MS20271B12Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |
| MS20271B14 | MS20271B14 | DSCC-VQ (VQE-07-13879) | Belden, Inc. |
| MS20271B14Z | MS20271B14Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |
| MS20271B20 | MS20271B20 | DSCC-VQ (VQE-07-13879) | Belden, Inc. |
| MS20271B20Z | MS20271B20Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |
| MS20271B24 | MS20271B24 | | Belden, Inc. |
| MS20271B24Z | MS20271B24Z | DSCC-VQ (VQE-10-019240) | Belden, Inc. |

## Manufacturer and Supplier Location Information

**Manufacturer: Apex Tool Group, LLC (CAGE Code: 03705)**
Location: 762 West Stewart Street, Dayton, OH 45417-3971, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Belden, Inc. (CAGE Code: 1R6X2)**
Location: 2500 Braga Drive, Broadview, IL 60155-3989, US

Plants:

1. Plant: Same Address as Manufacturer