

### Series 2M805 Connector



| Series    | Shell Style | Service Class | Shell Size-Insert Arrg. | Contact Type | Alternate Position |
|-----------|-------------|---------------|-------------------------|--------------|--------------------|
| 2M805-00X | -16         | C             | 15-37                   | S            | A                  |

\*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut.

| SERIES    |                                    |
|-----------|------------------------------------|
| 2M805-001 | Plug with Integral Backshell       |
| 2M805-002 | Plug with Accessory Thread         |
| 2M805-003 | Receptacle with Integral Backshell |
| 2M805-004 | Receptacle with Accessory Thread   |

| SHELL STYLE          |                                                          |
|----------------------|----------------------------------------------------------|
| 2M805-001, 2M805-002 |                                                          |
| -16                  | Plug Connector with Ratcheting Anti-Decoupling Mechanism |
| SHELL STYLE          |                                                          |
| 2M805-003, 2M805-004 |                                                          |
| -01                  | In-Line Receptacle                                       |
| -02                  | Square Flange Receptacle                                 |
| -07                  | Jam Nut* for Rear Panel Mounting Receptacle              |

#### SHELL SIZE - INSERT ARRANGEMENTS

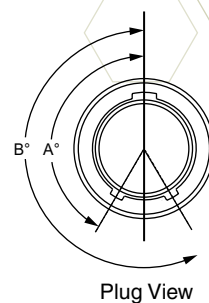
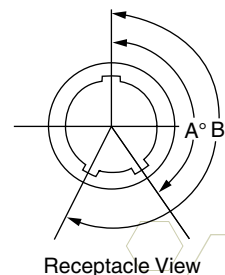
See Insert Arrangements on Pages 13-15



| CONTACTS |                       |
|----------|-----------------------|
| P        | Pin                   |
| S        | Socket                |
| A        | Pin, less contacts    |
| B        | Socket, less contacts |

| SERVICE CLASS |                                            |
|---------------|--------------------------------------------|
|               | Finish                                     |
| C             | Aluminum/Black Anodize (Non-Conductive)    |
| M             | Aluminum/Electroless Nickel                |
| NF            | Aluminum/Cadmium with Olive Drab Chromate  |
| MT            | Aluminum/Nickel-PTFE (Duralon)             |
| Z1            | Stainless Steel/Passivated                 |
| ZM            | Stainless Steel/Electroless Nickel         |
| ZN            | Aluminum/Zinc-Nickel w/Olive Drab Chromate |
| ZNU           | Aluminum/Zinc-Nickel with Black Chromate   |

| KEYING       |              |      |
|--------------|--------------|------|
| Key Position | Key Rotation |      |
|              | A            | B    |
| Normal A     | 150°         | 210° |
| B            | 75°          | 210° |
| C            | 95°          | 230° |
| D            | 140°         | 275° |



#### INSERT ARRANGEMENTS

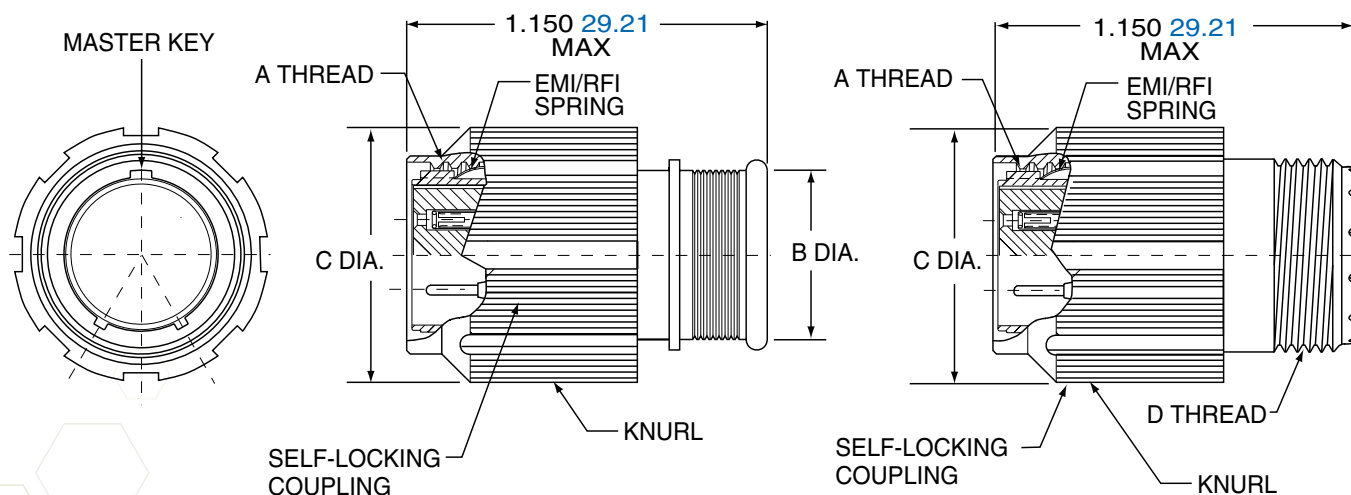
| Insert Arrg. | No. of Contacts |     |       |     |     |
|--------------|-----------------|-----|-------|-----|-----|
|              | #23             | #20 | #20HD | #16 | #12 |
| 8-1          |                 |     |       | 1   |     |
| 8-4          | 4               |     |       |     |     |
| 8-6          | 6               |     |       |     |     |
| 8-7          | 7               |     |       |     |     |
| 8-23         |                 |     | 3     |     |     |
| 9-1          |                 |     |       |     | 1   |
| 9-10         | 10              |     |       |     |     |
| 9-25         |                 |     | 5     |     |     |
| 10-2         |                 |     |       | 2   |     |
| 10-13        | 13              |     |       |     |     |
| 10-28        |                 |     | 8     |     |     |
| 10-200       | 4               | 2   |       |     |     |
| 11-4         |                 |     |       | 4   |     |
| 11-19        | 19              |     |       |     |     |
| 11-200       | 4               |     |       | 2   |     |
| 11-201       | 8               | 2   |       |     |     |
| 11-210       |                 |     | 10    |     |     |
| 12-2         |                 |     |       |     | 2   |
| 12-5         |                 |     |       | 5   |     |
| 12-26        | 26              |     |       |     |     |
| 12-200       | 12              |     |       |     | 1   |

#### INSERT ARRANGEMENTS

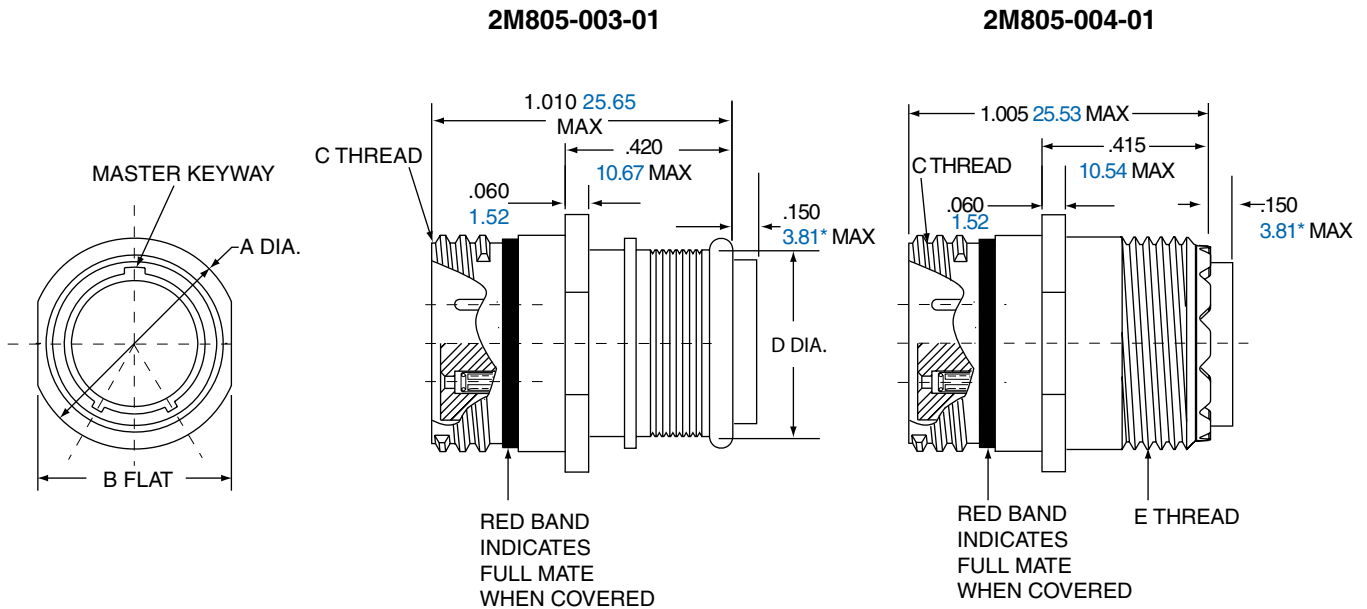
| Insert Arrg. | No. of Contacts |     |       |     |     |
|--------------|-----------------|-----|-------|-----|-----|
|              | #23             | #20 | #20HD | #16 | #12 |
| 12-201       | 4               |     |       |     | 2   |
| 12-202       | 8               |     |       | 2   |     |
| 15-2         |                 |     |       |     | 2   |
| 15-3         |                 |     |       |     | 3   |
| 15-7         |                 |     |       | 7   |     |
| 15-37        | 37              |     |       |     |     |
| 15-200       | 6               |     |       |     | 2   |
| 15-201       | 10              |     |       |     | 2   |
| 15-220       |                 |     | 20    |     |     |
| 18-5         |                 |     |       |     | 5   |
| 18-12        |                 |     |       | 12  |     |
| 18-55        | 55              |     |       |     |     |
| 18-235       |                 |     | 35    |     |     |
| 19-7         |                 |     |       |     | 7   |
| 19-14        |                 |     |       | 14  |     |
| 19-85        | 85              |     |       |     |     |
| 19-241       |                 |     | 41    |     |     |
| 23-12        |                 |     |       |     | 12  |
| 23-22        |                 |     |       | 22  |     |
| 23-130       | 130             |     |       |     |     |
| 23-269       |                 |     | 69    |     |     |

2M805-001

2M805-002



| Shell Size | A Threads            | B Dia. |       | C Dia. |       | D Threads Accessory |
|------------|----------------------|--------|-------|--------|-------|---------------------|
|            |                      | in.    | mm.   | in.    | mm.   |                     |
| 8          | .5000-.1P-.3L-TS-2B  | .317   | 8.05  | .691   | 17.55 | .3750-32 UNEF-2A    |
| 9          | .5625-.1P-.3L-TS-2B  | .397   | 10.08 | .787   | 19.99 | .4375-28 UNEF-2A    |
| 10         | .6250-.1P-.3L-TS-2B  | .473   | 12.01 | .826   | 20.98 | .5000-28 UNEF-2A    |
| 11         | .6875-.1P-.3L-TS-2B  | .519   | 13.18 | .925   | 23.50 | .5625-24 UNEF-2A    |
| 12         | .7500-.1P-.3L-TS-2B  | .585   | 14.86 | .982   | 24.94 | .6250-24 UNEF-2A    |
| 15         | .9375-.1P-.3L-TS-2B  | .687   | 17.45 | 1.105  | 28.07 | .7500-20 UNEF-2A    |
| 18         | 1.1250-.1P-.3L-TS-2B | .884   | 22.45 | 1.275  | 32.39 | .9375-20 UNEF-2A    |
| 19         | 1.1875-.1P-.3L-TS-2B | .884   | 22.45 | 1.310  | 33.27 | .9375-20 UNEF-2A    |
| 23         | 1.4375-.1P-.3L-TS-2B | 1.135  | 28.83 | 1.562  | 39.67 | 1.1875-18 UNEF-2A   |



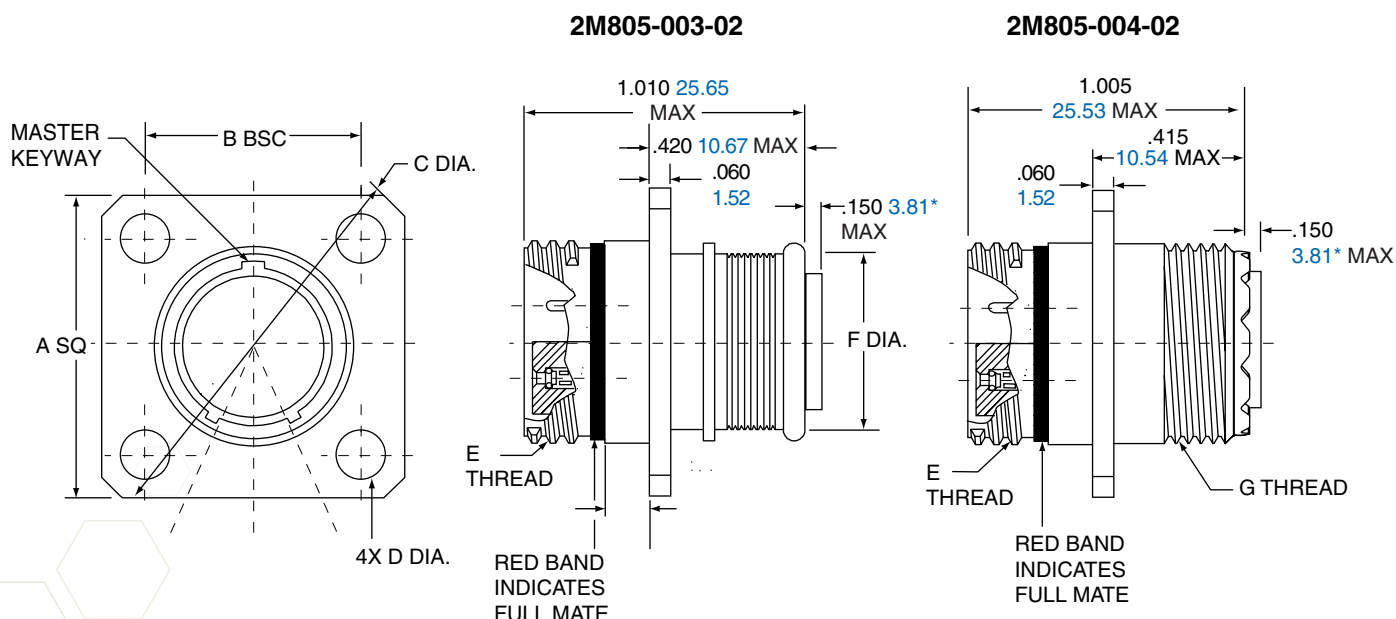
\* Grommet protrudes for power/combo arrangement

| Shell Size | A Dia. |       | B Flat |       | C Threads            | D Dia. |       | E Threads Accessory |
|------------|--------|-------|--------|-------|----------------------|--------|-------|---------------------|
|            | in.    | mm.   | in.    | mm.   |                      | in.    | mm.   |                     |
| 8          | .543   | 13.79 | .513   | 13.03 | .5000-.1P-.3L-TS-2A  | .317   | 8.05  | .3750-32 UNEF-2A    |
| 9          | .608   | 15.44 | .578   | 14.68 | .5625-.1P-.3L-TS-2A  | .397   | 10.08 | .4375-28 UNEF-2A    |
| 10         | .671   | 17.04 | .641   | 16.28 | .6250-.1P-.3L-TS-2A  | .473   | 12.01 | .5000-28 UNEF-2A    |
| 11         | .733   | 18.62 | .703   | 17.86 | .6875-.1P-.3L-TS-2A  | .519   | 13.18 | .5625-24 UNEF-2A    |
| 12         | .796   | 20.22 | .766   | 19.46 | .7500-.1P-.3L-TS-2A  | .585   | 14.86 | .6250-24 UNEF-2A    |
| 15         | .983   | 24.97 | .953   | 24.21 | .9375-.1P-.3L-TS-2A  | .687   | 17.45 | .7500-20 UNEF-2A    |
| 18         | 1.168  | 29.67 | 1.138  | 28.91 | 1.1250-.1P-.3L-TS-2A | .884   | 22.45 | .9375-20 UNEF-2A    |
| 19         | 1.238  | 31.45 | 1.208  | 30.68 | 1.1875-.1P-.3L-TS-2A | .884   | 22.45 | .9375-20 UNEF-2A    |
| 23         | 1.485  | 37.72 | 1.455  | 39.96 | 1.4375-.1P-.3L-TS-2A | 1.135  | 28.83 | 1.1875-18 UNEF-2A   |

# 2M805 Tri-Start Square Flange Receptacle

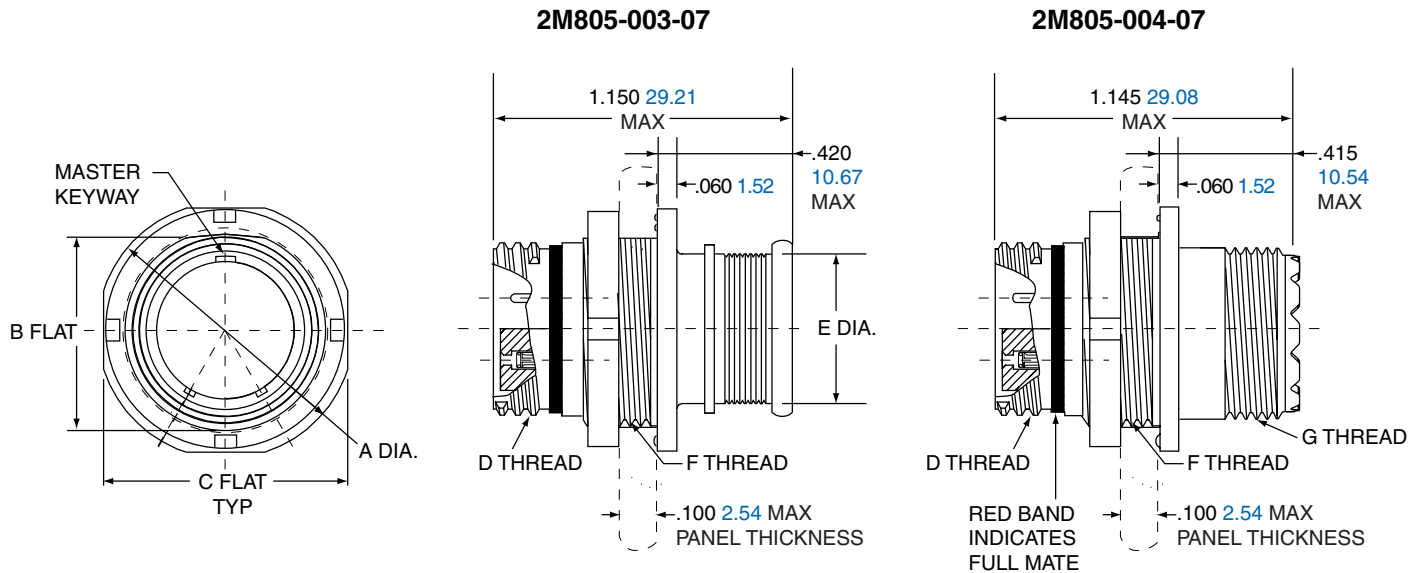


2M805-003-02 and 2M805-004-02



\* Grommet protrudes for power/combo arrangement

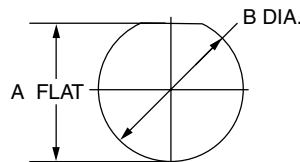
| Shell Size | A Sq. |       | B BSC. |       | C Dia. |       | D Dia.    |          | E Threads            | F Dia. |       | G Threads Accessory |
|------------|-------|-------|--------|-------|--------|-------|-----------|----------|----------------------|--------|-------|---------------------|
|            | in.   | mm.   | in.    | mm.   | in.    | mm.   | in. ±.003 | mm. ±.08 |                      | in.    | mm.   |                     |
| 8          | .853  | 21.67 | .660   | 16.76 | 1.153  | 29.29 | .091      | 2.31     | .5000-.1P-.3L-TS-2A  | .317   | 8.05  | .3750-32 UNEF-2A    |
| 9          | .916  | 23.27 | .723   | 18.36 | 1.233  | 31.32 | .091      | 2.31     | .5625-.1P-.3L-TS-2A  | .397   | 10.08 | .4375-28 UNEF-2A    |
| 10         | .978  | 24.84 | .785   | 19.94 | 1.333  | 33.86 | .091      | 2.31     | .6250-.1P-.3L-TS-2A  | .473   | 12.01 | .5000-28 UNEF-2A    |
| 11         | 1.042 | 26.47 | .848   | 21.54 | 1.413  | 35.89 | .091      | 2.31     | .6875-.1P-.3L-TS-2A  | .519   | 13.18 | .5625-24 UNEF-2A    |
| 12         | 1.102 | 27.99 | .909   | 23.09 | 1.503  | 38.18 | .091      | 2.31     | .7500-.1P-.3L-TS-2A  | .585   | 14.86 | .6250-24 UNEF-2A    |
| 15         | 1.291 | 32.79 | 1.058  | 26.87 | 1.753  | 44.53 | .125      | 3.18     | .9375-.1P-.3L-TS-2A  | .687   | 17.45 | .7500-20 UNEF-2A    |
| 18         | 1.478 | 37.54 | 1.255  | 31.88 | 2.003  | 50.88 | .125      | 3.18     | 1.1250-.1P-.3L-TS-2A | .884   | 22.45 | .9375-20 UNEF-2A    |
| 19         | 1.540 | 39.12 | 1.327  | 33.71 | 2.097  | 53.26 | .125      | 3.18     | 1.1875-.1P-.3L-TS-2A | .884   | 22.45 | .9375-20 UNEF-2A    |
| 23         | 1.790 | 45.47 | 1.570  | 39.88 | 2.443  | 62.05 | .125      | 3.18     | 1.4375-.1P-.3L-TS-2A | 1.135  | 28.83 | 1.1875-18 UNEF-2A   |



| Shell Size | A Dia. |       | B Flat |       | C Flat |       | D Threads            | E Dia. |       | F Threads       | G Threads Accessory |
|------------|--------|-------|--------|-------|--------|-------|----------------------|--------|-------|-----------------|---------------------|
|            | in.    | mm.   | in.    | mm.   | in.    | mm.   |                      | in.    | mm.   |                 |                     |
| 8          | .760   | 19.30 | .535   | 13.59 | .730   | 18.54 | .5000-.1P-.3L-TS-2A  | .317   | 8.05  | .5625-28 UN-2A  | .3750-32 UNEF-2A    |
| 9          | .880   | 22.35 | .661   | 16.79 | .850   | 21.59 | .5625-.1P-.3L-TS-2A  | .397   | 10.08 | .6875-28 UN-2A  | .4375-28 UNEF-2A    |
| 10         | .880   | 22.35 | .661   | 16.79 | .850   | 21.59 | .6250-.1P-.3L-TS-2A  | .473   | 12.01 | .6875-28 UN-2A  | .5000-28 UNEF-2A    |
| 11         | .955   | 24.26 | .721   | 18.31 | .925   | 23.50 | .6875-.1P-.3L-TS-2A  | .519   | 13.18 | .7500-28 UN-2A  | .5625-24 UNEF-2A    |
| 12         | 1.065  | 27.05 | .784   | 19.91 | 1.039  | 26.39 | .7500-.1P-.3L-TS-2A  | .585   | 14.86 | .8125-28 UN-2A  | .6250-24 UNEF-2A    |
| 15         | 1.203  | 30.56 | .970   | 24.64 | 1.173  | 29.79 | .9375-.1P-.3L-TS-2A  | .687   | 17.45 | 1.0000-28 UN-2A | .7500-20 UNEF-2A    |
| 18         | 1.395  | 35.43 | 1.150  | 29.21 | 1.359  | 34.52 | 1.1250-.1P-.3L-TS-2A | .884   | 22.45 | 1.1875-28 UN-2A | .9375-20 UNEF-2A    |
| 19         | 1.450  | 36.83 | 1.221  | 31.01 | 1.420  | 36.07 | 1.1875-.1P-.3L-TS-2A | .884   | 22.45 | 1.2500-28 UN-2A | .9375-20 UNEF-2A    |
| 23         | 1.705  | 43.31 | 1.470  | 37.34 | 1.678  | 42.62 | 1.4375-.1P-.3L-TS-2A | 1.135  | 28.83 | 1.5000-28 UN-2A | 1.1875-18 UNEF-2A   |

### PANEL CUTOUT FOR JAM NUT

| Shell Size | A Flat    |            | B Dia     |            |
|------------|-----------|------------|-----------|------------|
|            | in. ±.002 | mm. ± 0.05 | in. ±.005 | mm. ± 0.13 |
| 8          | .543      | 13.79      | .572      | 14.53      |
| 9          | .669      | 16.99      | .698      | 17.73      |
| 10         | .669      | 16.99      | .698      | 17.73      |
| 11         | .729      | 18.51      | .760      | 19.30      |
| 12         | .792      | 20.17      | .822      | 20.88      |
| 15         | .978      | 24.84      | 1.010     | 25.65      |
| 18         | 1.155     | 29.34      | 1.198     | 30.43      |
| 19         | 1.231     | 31.27      | 1.260     | 32.00      |
| 23         | 1.480     | 37.59      | 1.510     | 38.35      |



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