

3M™ Terminal Numbering System

| 3M Identity | Code/Barrel Style | Wire Size Code (AWG) | – Stud, Tab, or Bullet Size | Tongue Code | Product Availability** |
|-------------|--|----------------------|--------------------------------------|---|---|
| M | No Code = Bare Brazed | 24 = 26–24 (yellow) | (STUD) | F = Fork | All box (X) package terminals in this catalog are available (in the packaging quantity indicated) from local distributor stocks. All bulk (K) packaged terminals are available in full cartons only, and may require a three to five week order lead time from the factory. |
| | A = No Barrel (adapter) | 20 = 26–20 (yellow) | 0 = 0 | FB = Fork, Block | |
| | I = Double Wall w/Interlock | 18 = 22–18 (red) | 2 = 2 | FBHT = Fork, Block, High Temp. | |
| | N = Nylon Brazed | 14 = 16–14 (blue) | 4 = 4 | FFB = Fork, Flanged, Block | |
| | NG = Nylon w/ Grip | 10 = 12–10 (yellow) | 6 = 6 | FHT = Fork, High Temp. | |
| | NHU = Nylon/Butted w/ Heat Shrink Over Top | 8 = 8 (red) | 8 = 8 | FL = Fork, Locking | |
| | NU = Nylon/Butted | 6 = 6 (blue) | 10 = 10 | R = Ring | |
| | U = Bare/Butted | 4 = 4 (yellow) | 12 = 1/2" | RHD = Ring, Heavy Duty | |
| | V = Vinyl/Brazed | | 14 = 1/4" | RHT = Ring, High Temp. | |
| | VA = Vinyl Adapter | | 38 = 3/8" | /S = Short or Small | |
| | VU = Vinyl/Butted | | 516 = 5/16" | /L = Large or Long | |
| | | | 610 = 6, 8, 10 | R/Flag = Ring, Flag | |
| | | | (TAB) | BC = Butt Connector | |
| | | | 110 = 0.110" x 0.020" | CEC = Closed End Connector | |
| | | | 110/32 = 0.110" x 0.032" | P = Pin Connector | |
| | | | 187 = 0.187" x 0.020" | PC = Parallel Connector | |
| | | | 250 = 0.250" x 0.032" | BCM = Butt Connector | |
| | | | 375 = 0.375" x 0.050" | Moisture Resistant | |
| | | | (BULLET) | CEC/ST = Closed End Connector, Steel Insert | |
| | | | 156 = 0.156" Dia. | Disconnect | |
| | | | 180 = 0.180" Dia. | DF = Female | |
| | | | 47 = 0.47 Pin Length | DFHT = Female, High Temp. | |
| | | | 55 = 0.55 Pin Length | DFI = Female, Fully Insulated | |
| | | | DM = Male | | |
| | | | DMF = Male, Female | | |
| | | | DMHT = Male, High Temp. | | |
| | | | DMI = Male, Fully Insulated | | |
| | | | DF/Flag = Female Flag | | |
| | | | Adapter | | |
| | | | D = Disconnects | | |
| | | | F = Female | | |
| | | | FFI = Double Female, Fully Insulated | | |
| | | | M = Male | | |
| | | | MMI = Double Male, Fully Insulated | | |
| | | | MMF = Double Male, Female | | |
| | | | MFM = Male, Female, Male, Stacking | | |
| | | | RR = Ring Rectangular Tongue | | |
| | | | Fuse = Fuse Adapter Clip | | |

* A dash (–) separates the wire size code from the stud, tab or bullet size code.

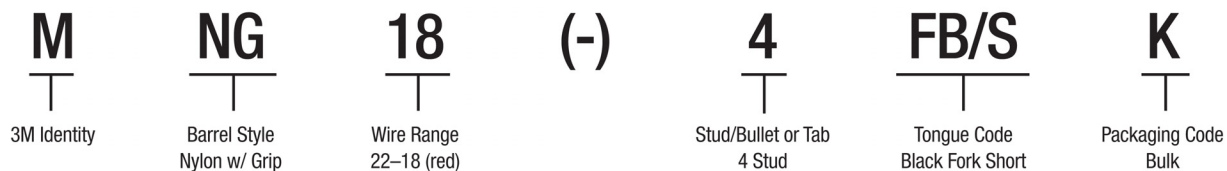
** Denotes product packaging. Packaging of 3M™ Scotchlok™ terminals should be specified by using the appropriate terminal part number. Suffix letters are indicated within each product number. (See "Product Number" heading in ordering information charts.)

Note: Contact your local distributor or 3M sales office for price and delivery information.

Map of Numbering System

Example:



























Catalog Number: MNG18-4 FB/SK



Insulator Color Coding

| | | | | | | |
|--------------------|-----------------|------------------|--------------------|-------------|--------------|----------------|
| Yellow (26-24 AWG) | Red (22-18 AWG) | Blue (16-14 AWG) | Yellow (12-10 AWG) | Red (8 AWG) | Blue (6 AWG) | Yellow (4 AWG) |
|--------------------|-----------------|------------------|--------------------|-------------|--------------|----------------|

3M™ Terminal Stud Size Chart

| | Stud Size | | | OUS/Metric | Diameter | 3M Terminal Hole Diameter |
|------|---|---------------------|------|---|-----------------|---------------------------|
| | US/Inches | Diameter | | | | |
| #2 |  | 0.086" (2,144 mm) | M2 |  | 2,0 mm (0.080") | 0.095" (2,4 mm) |
| #4 |  | 0.112" (2,844 mm) | M2,5 |  | 2,5 mm (0.100") | 0.120" (3,0 mm) |
| #5 |  | 0.125" (3,175 mm) | M3 |  | 3,0 mm (0.120") | 0.148" (3,8 mm) |
| #6 |  | 0.138" (3,505 mm) | M3,5 |  | 3,5 mm (0.140") | 0.148" (3,8 mm) |
| #8 |  | 0.164" (4,166 mm) | M4 |  | 4,0 mm (0.176") | 0.174" (4,4 mm) |
| #10 |  | 0.190" (4,826 mm) | M5 |  | 5,0 mm (0.20") | 0.200" (5,1 mm) |
| 1/4 |  | 0.250" (6,350 mm) | M6 |  | 6,0 mm (0.24") | 0.265" (6,7 mm) |
| 5/16 |  | 0.3125" (7,938 mm) | M8 |  | 8,0 mm (0.32") | 0.328" (8,3 mm) |
| 3/8 |  | 0.375" (9,525 mm) | M10 |  | 10,0 mm (0.40") | 0.397" (10,1 mm) |
| 7/16 |  | 0.4375" (11,113 mm) | M10 |  | 10,0 mm (0.48") | 0.450" (11,4 mm) |
| 1/2 |  | 0.500" (12,700 mm) | M12 |  | 12,0 mm (0.48") | 0.515" (13,1 mm) |
| 5/8 |  | 0.625" (15,875 mm) | M16 |  | 16,0 mm (0.64") | 0.656" (16,7 mm) |
| 3/4 |  | 0.750" (19,050 mm) | M18 |  | 18,0 mm (0.72") | 0.781" (19,8 mm) |

Ref: ISO 263-1973 for inch stud sizes and ISO 262-1973 for metric stud sizes.

American Wire Gauge

| Size | Inches | Millimeters | Size | Inches | Millimeters | Size | Inches | Millimeters |
|------|--------|-------------|------|--------|-------------|------|--------|-------------|
| 4/0 | 0.4600 | 11,684 | 4 | 0.2043 | 5,189 | 16 | 0.0508 | 1,290 |
| 3/0 | 0.4096 | 10,040 | 6 | 0.1620 | 4,115 | 18 | 0.0403 | 1,024 |
| 2/0 | 0.3648 | 9,266 | 8 | 0.1285 | 3,264 | 20 | 0.0320 | 0,813 |
| 1/0 | 0.3249 | 8,253 | 10 | 0.1019 | 2,588 | 22 | 0.0253 | 0,643 |
| 1 | 0.2893 | 7,347 | 12 | 0.0808 | 2,052 | 24 | 0.0201 | 0,511 |
| 2 | 0.2576 | 6,543 | 14 | 0.0641 | 1,628 | 26 | 0.0159 | 0,404 |

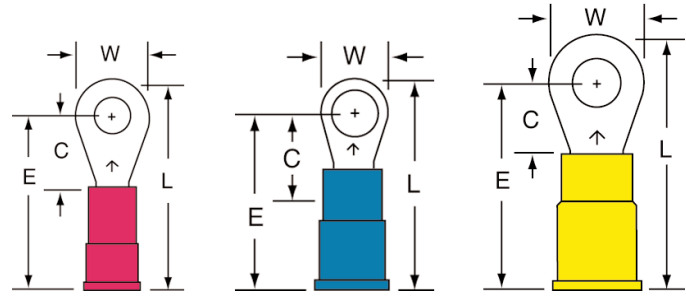
Terminals, Kits and Tools: 3M™ Scotchlok™ Ring Tongues

Nylon Insulated Brazed Seam Ring Tongues (continued)

| Product No. | UPC | Conductor Size | Stud Size | (W) | (C) | (L) | (E) | Thickness | Barrel I.D. | Max. Insul. Dia. | Terminals per Carton | Terminals per Case |
|-------------|--------------|----------------|-----------|-------|-------|-------|-------|-----------|-------------|------------------|----------------------|--------------------|
| MN24-4RK | 054007-95142 | 26-24 AWG | 4 | 0.20" | 0.21" | 0.60" | 0.49" | 0.020" | 0.030" | 0.093" | - | 1000 |
| MN24-6RK | 054007-95146 | 26-24 AWG | 6 | 0.20" | 0.21" | 0.60" | 0.49" | 0.020" | 0.030" | 0.093" | - | 1000 |
| MN24-8RK | 054007-95161 | 26-24 AWG | 8 | 0.25" | 0.28" | 0.69" | 0.56" | 0.020" | 0.030" | 0.093" | - | 1000 |
| MN24-10RK | 054007-95156 | 26-24 AWG | 10 | 0.25" | 0.28" | 0.69" | 0.56" | 0.020" | 0.030" | 0.093" | - | 1000 |

Vinyl Insulated Brazed Seam Ring Tongues

Terminal Type Ring
Terminal Style Standard
Insulation Material Vinyl
Barrel Style Brazed
EU RoHS Yes
Agency Approval 
Manufacturing Origin 





| Product No. | UPC | Conductor Size | Stud Size | (W) | (C) | (L) | (E) | Thickness | Barrel I.D. | Max. Insul. Dia. | Terminals per Carton | Terminals per Case |
|--------------|--------------|----------------|-----------|-------|-------|-------|-------|-----------|-------------|------------------|----------------------|--------------------|
| MV18-2R/SK | 054007-01045 | 22 - 18 AWG | 2 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MV18-4R/SX | 051128-58729 | 22 - 18 AWG | 4 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV18-4R/SK | 054007-01046 | 22 - 18 AWG | 4 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MV18-6R/SX | 051128-58730 | 22 - 18 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV18-6R/SK | 054007-01048 | 22 - 18 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MV18-8R/LX | 051128-58731 | 22 - 18 AWG | 8 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV18-8R/LK | 054007-01053 | 22 - 18 AWG | 8 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MV18-10R/LX | 051128-58732 | 22 - 18 AWG | 10 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV18-10R/LK | 054007-01055 | 22 - 18 AWG | 10 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MV18-14R/SX | 051128-58733 | 22 - 18 AWG | 1/4" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV18-14R/SK | 054007-01056 | 22 - 18 AWG | 1/4" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MV18-516R/SX | 051128-58942 | 22 - 18 AWG | 5/16" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV18-38RX | 051128-58734 | 22 - 18 AWG | 3/8" | 0.56" | 0.40" | 1.13" | 0.85" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MV14-4R/SX | 051128-58752 | 16 - 14 AWG | 4 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-4R/SK | 054007-01412 | 16 - 14 AWG | 4 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-6R/SX | 051128-58753 | 16 - 14 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-6R/SK | 054007-01414 | 16 - 14 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-8R/SK | 054007-01417 | 16 - 14 AWG | 8 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-8R/LX | 051128-58755 | 16 - 14 AWG | 8 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-8R/LK | 054007-01419 | 16 - 14 AWG | 8 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-10RK | 054007-01420 | 16 - 14 AWG | 10 | 0.33" | 0.29" | 0.90" | 0.74" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-10R/LX | 051128-58749 | 16 - 14 AWG | 10 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-10R/LK | 054007-01421 | 16 - 14 AWG | 10 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-14R/SX | 051128-58750 | 16 - 14 AWG | 1/4" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-14R/SK | 054007-01422 | 16 - 14 AWG | 1/4" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-516R/SX | 051128-58961 | 16 - 14 AWG | 5/16" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-516R/SK | 054007-01424 | 16 - 14 AWG | 5/16" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.090" | 0.170" | - | 1000 |
| MV14-38RX | 051128-58751 | 16 - 14 AWG | 3/8" | 0.56" | 0.40" | 1.13" | 0.85" | 0.030" | 0.090" | 0.170" | 100 | 500 |
| MV14-38RK | 054007-00546 | 16 - 14 AWG | 3/8" | 0.56" | 0.40" | 1.13" | 0.85" | 0.030" | 0.090" | 0.170" | - | 1000 |

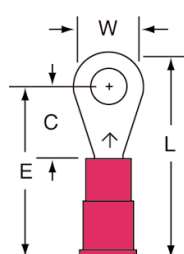
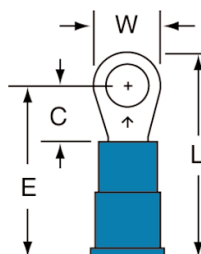
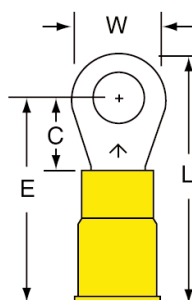
Terminals, Kits and Tools: 3M™ Scotchlok™ Ring Tongues

Vinyl Insulated Brazed Seam Ring Tongues (continued)

| Product No. | UPC | Conductor Size | Stud Size | (W) | (C) | (L) | (E) | Thickness | Barrel I.D. | Max. Insul. Dia. | Terminals per Carton | Terminals per Case |
|--------------|--------------|----------------|-----------|-------|-------|-------|-------|-----------|-------------|------------------|----------------------|--------------------|
| MV10-4R/SK | 054007-01918 | 12 - 10 AWG | 4 | 0.28" | 0.29" | 0.98" | 0.84" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-6RX | 051128-58756 | 12 - 10 AWG | 6 | 0.38" | 0.29" | 1.03" | 0.84" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-6RK | 054007-01920 | 12 - 10 AWG | 6 | 0.38" | 0.29" | 1.03" | 0.84" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-8RX | 051128-58757 | 12 - 10 AWG | 8 | 0.38" | 0.29" | 1.03" | 0.84" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-8RK | 054007-01922 | 12 - 10 AWG | 8 | 0.38" | 0.29" | 1.03" | 0.84" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-10RX | 051128-58758 | 12 - 10 AWG | 10 | 0.38" | 0.29" | 1.03" | 0.84" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-10RK | 054007-01923 | 12 - 10 AWG | 10 | 0.38" | 0.29" | 1.03" | 0.84" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-14R/SX | 051128-58759 | 12 - 10 AWG | 1/4" | 0.53" | 0.44" | 1.26" | 0.99" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-14R/SK | 054007-01924 | 12 - 10 AWG | 1/4" | 0.53" | 0.44" | 1.26" | 0.99" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-516R/SX | 051128-58760 | 12 - 10 AWG | 5/16" | 0.53" | 0.44" | 1.26" | 0.99" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-516R/SK | 054007-01926 | 12 - 10 AWG | 5/16" | 0.53" | 0.44" | 1.26" | 0.99" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-38R/SX | 051128-58983 | 12 - 10 AWG | 3/8" | 0.54" | 0.44" | 1.26" | 0.99" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-38R/SK | 054007-01928 | 12 - 10 AWG | 3/8" | 0.54" | 0.44" | 1.26" | 0.99" | 0.040" | 0.135" | 0.250" | - | 500 |
| MV10-12RX | 054007-23409 | 12 - 10 AWG | 1/2" | 0.75" | 0.57" | 1.50" | 1.12" | 0.040" | 0.135" | 0.250" | 50 | 500 |
| MV10-12RK | 054007-01931 | 12 - 10 AWG | 1/2" | 0.75" | 0.57" | 1.50" | 1.12" | 0.040" | 0.135" | 0.250" | - | 500 |

Vinyl Insulated Butted Seam Ring Tongues

| | |
|-----------------------------|---|
| Terminal Type | Ring |
| Terminal Style | Standard |
| Insulation Material | Vinyl |
| Barrel Style | Butted |
| EU RoHS | Yes |
| Agency Approval |  |
| Manufacturing Origin |  |

| Product No. | UPC | Conductor Size | Stud Size | (W) | (C) | (L) | (E) | Thickness | Barrel I.D. | Max. Insul. Dia. | Terminals per Carton | Terminals per Case |
|---------------|--------------|----------------|-----------|-------|-------|-------|-------|-----------|-------------|------------------|----------------------|--------------------|
| MVU18-4R/SK | 054007-01078 | 22 - 18 AWG | 4 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU18-6R/SK | 054007-01080 | 22 - 18 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU18-6R/SX | 051128-58814 | 22 - 18 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MVU18-8R/LK | 054007-01085 | 22 - 18 AWG | 8 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU18-8R/LX | 051128-59040 | 22 - 18 AWG | 8 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MVU18-8R/SX | 051128-58852 | 22 - 18 AWG | 8 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MVU18-10R/LK | 054007-01087 | 22 - 18 AWG | 10 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU18-10R/LX | 054007-35107 | 22 - 18 AWG | 10 | 0.31" | 0.33" | 0.93" | 0.78" | 0.030" | 0.070" | 0.145" | 50 | 500 |
| MVU18-10RX | 051128-58853 | 22 - 18 AWG | 10 | 0.31" | 0.29" | 0.90" | 0.74" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MVU18-14R/SK | 054007-01088 | 22 - 18 AWG | 1/4" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU18-14R/SX | 051128-58815 | 22 - 18 AWG | 1/4" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MVU18-516R/SK | 054007-01090 | 22 - 18 AWG | 5/16" | 0.47" | 0.40" | 1.08" | 0.85" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU18-38RK | 054007-01092 | 22 - 18 AWG | 3/8" | 0.56" | 0.40" | 1.13" | 0.85" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU14-4R/SK | 054007-01444 | 16 - 14 AWG | 4 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU14-6R/SK | 054007-01446 | 16 - 14 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU14-6R/SX | 051128-58818 | 16 - 14 AWG | 6 | 0.25" | 0.22" | 0.80" | 0.67" | 0.030" | 0.070" | 0.145" | 100 | 500 |
| MVU14-8RK | 054007-01450 | 16 - 14 AWG | 8 | 0.33" | 0.29" | 0.90" | 0.74" | 0.030" | 0.070" | 0.145" | - | 1000 |
| MVU14-8RX | 051128-58880 | 16 - 14 AWG | 8 | 0.33" | 0.29" | 0.90" | 0.74" | 0.030" | 0.070" | 0.145" | 100 | 500 |

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