

# LMR<sup>®</sup>-400 Flexible Low Loss Communications Coax

## Ideal for...

- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- **NEW!** Times Protect<sup>®</sup> LP-18-400 protector-series



| Part Description |                          |        |       |       | Stock |
|------------------|--------------------------|--------|-------|-------|-------|
| Part Number      | Application              | Jacket | Color | Code  |       |
| LMR-400          | Outdoor                  | PE     | Black | 54001 |       |
| LMR-400-DB       | Outdoor/Watertight       | PE     | Black | 54091 |       |
| LMR-400-FR       | Indoor/Outdoor Riser CMR | FRPE   | Black | 54030 |       |
| LMR-400-FR-PVC   | Indoor/Outdoor Riser CMR | FRPVC  | Black | 54073 |       |
| LMR-400-PVC      | General Purpose          | PVC    | Black | 54218 |       |
| LMR-400-PVC-W    | General Purpose          | PVC    | White | 54204 |       |

| Construction Specifications |               |       |         |
|-----------------------------|---------------|-------|---------|
| Description                 | Material      | In.   | (mm)    |
| Inner Conductor             | Solid BCCAI   | 0.108 | (2.74)  |
| Dielectric                  | Foam PE       | 0.285 | (7.24)  |
| Outer Conductor             | Aluminum Tape | 0.291 | (7.39)  |
| Overall Braid               | Tinned Copper | 0.320 | (8.13)  |
| Jacket                      | (see table)   | 0.405 | (10.29) |

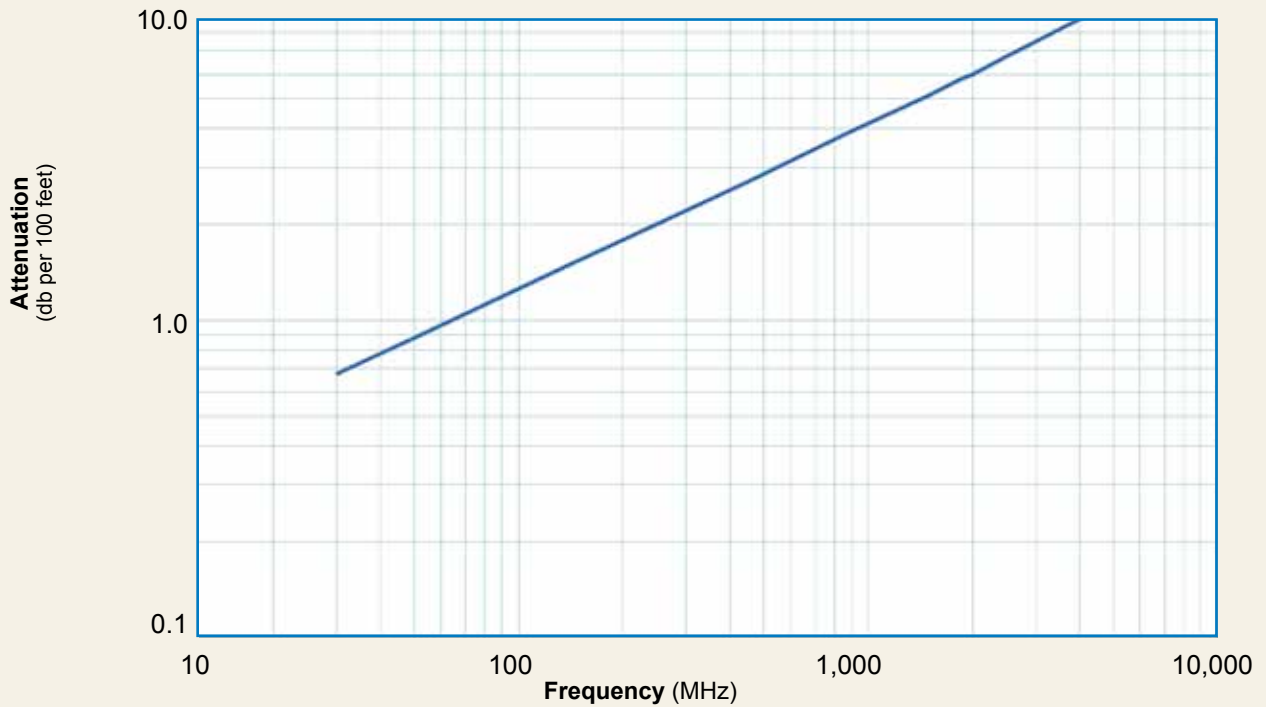
| Environmental Specifications   |          |         |
|--------------------------------|----------|---------|
| Performance Property           | °F       | °C      |
| Installation Temperature Range | -40/+185 | -40/+85 |
| Storage Temperature Range      | -94/+185 | -70/+85 |
| Operating Temperature Range    | -40/+185 | -40/+85 |

| Mechanical Specifications |                |       |          |
|---------------------------|----------------|-------|----------|
| Performance Property      | Units          | US    | (metric) |
| Bend Radius: installation | in. (mm)       | 1.00  | (25.4)   |
| Bend Radius: repeated     | in. (mm)       | 4.0   | (101.6)  |
| Bending Moment            | ft-lb (N-m)    | 0.5   | (0.68)   |
| Weight                    | lb/ft (kg/m)   | 0.068 | (0.10)   |
| Tensile Strength          | lb (kg)        | 160   | (72.6)   |
| Flat Plate Crush          | lb/in. (kg/mm) | 40    | (0.71)   |

| Electrical Specifications |                   |       |          |
|---------------------------|-------------------|-------|----------|
| Performance Property      | Units             | US    | (metric) |
| Velocity of Propagation   | %                 | 84    |          |
| Dielectric Constant       | NA                | 1.38  |          |
| Time Delay                | nS/ft (nS/m)      | 1.20  | (3.92)   |
| Impedance                 | ohms              | 50    |          |
| Capacitance               | pF/ft (pF/m)      | 23.9  | (78.4)   |
| Inductance                | uH/ft (uH/m)      | 0.060 | (0.20)   |
| Shielding Effectiveness   | dB                | >90   |          |
| DC Resistance             |                   |       |          |
| Inner Conductor           | ohms/1000ft (/km) | 1.39  | (4.6)    |
| Outer Conductor           | ohms/1000ft (/km) | 1.65  | (5.4)    |
| Voltage Withstand         | Volts DC          | 2500  |          |
| Jacket Spark              | Volts RMS         | 8000  |          |
| Peak Power                | kW                | 16    |          |

TIMES MICROWAVE

**Attenuation vs. Frequency (typical)**



| Frequency (MHz)              | 30   | 50   | 150  | 220  | 450  | 900  | 1500 | 1800 | 2000 | 2500 | 5800 | 8000 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Attenuation dB/100 ft</b> | 0.7  | 0.9  | 1.5  | 1.9  | 2.7  | 3.9  | 5.1  | 5.7  | 6.0  | 6.8  | 10.8 | 13.0 |
| <b>Attenuation dB/100 m</b>  | 2.2  | 2.9  | 5.0  | 6.1  | 8.9  | 12.8 | 16.8 | 18.6 | 19.6 | 22.2 | 35.5 | 42.7 |
| <b>Avg. Power kW</b>         | 3.33 | 2.57 | 1.47 | 1.20 | 0.83 | 0.58 | 0.44 | 0.40 | 0.37 | 0.33 | 0.21 | 0.17 |

**Calculate Attenuation =**

$(0.122290) \cdot \sqrt{\text{FMHz}} + (0.000260) \cdot \text{FMHz}$  (interactive calculator available at [http://www.timesmicrowave.com/cable\\_calculators](http://www.timesmicrowave.com/cable_calculators))

**Attenuation:**

VSWR=1.0 ; Ambient = +25°C (77°F)

**Power:**

VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

# LMR<sup>®</sup>-400 Flexible Low Loss Communications

| Connectors                 |                  |                   |            |         |          |                      |                      |              |                |               |               |  |  |
|----------------------------|------------------|-------------------|------------|---------|----------|----------------------|----------------------|--------------|----------------|---------------|---------------|--|--|
| Interface                  | Description      | Part Number       | Stock Code | VSWR**  | Coupling | Inner Contact Attach | Outer Contact Attach | Finish* /Pin | Length in (mm) | Width in (mm) | Weight lb (g) |  |  |
| 1. 4.1-9.5 mini DIN Female | Straight Jack    | EZ-400-4195F-X    | 3190-2968  | <1.25:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 1.8 (45.0)     | 0.55 (14.0)   | 0.074 (33.6)  |  |  |
| 2. 4.1-9.5 mini DIN Female | Straight Plug    | EZ-400-4195M-X    | 3190-2969  | <1.25:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 1.5 (38.1)     | 0.89 (22.6)   | 0.103 (46.8)  |  |  |
| 3. 7-16 DIN Female         | Straight Jack    | TC-400-716-FC     | 3190-376   | <1.25:1 | (2.5)    | N/A                  | Solder Clamp         | S/S          | 1.6 (41)       | 1.13 (28.7)   | 0.281 (127.5) |  |  |
| 4. 7-16 DIN                | Right Angle      | TC-400-716M-RA-D  | 3190-2598  | <1.35:1 | (6)      | Hex                  | Solder Crimp         | A/S          | 1.7 (43.20)    | 1.98 (50.3)   | 0.374 (169.5) |  |  |
| 5. 7-16 DIN Male           | Straight Plug    | EZ-400-716M-X     | 3190-2524  | <1.25:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 1.6 (39.5)     | 1.38 (35)     | 0.277 (126.0) |  |  |
| 6. 7-16 DIN Male           | Straight Plug    | TC-400-716M-X     | 3190-2597  | <1.25:1 | (6)      | Hex                  | Solder Crimp         | A/S          | 1.6 (39.5)     | 1.42 (36.0)   | 0.320 (145.0) |  |  |
| 7. 7-16 DIN Male           | Straight Plug    | TC-400-716-MC     | 3190-279   | <1.25:1 | (2.5)    | Hex                  | Solder Clamp         | S/S          | 1.4 (36)       | 1.40 (35.6)   | 0.268 (121.6) |  |  |
| 8. 7-16 DIN Male           | Right Angle      | TC-400-716MC-RA   | 3190-1671  | <1.25:1 | (<3)     | Hex                  | Solder Clamp         | A/S          | 2.4 (61.5)     | 1.88 (47.8)   | 0.35 (159)    |  |  |
| 9. 7-16 DIN Male           | Right Angle      | EZ-400-716M-RA-X  | 3190-2545  | <1.35:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 1.6 (41.7)     | 1.75 (44.3)   | 0.374 (0.17)  |  |  |
| 10. BNC Male               | Straight Plug    | TC-400-BM-X       | 3190-6232  | <1.30:1 | (4)      | Knurl                | Solder Crimp         | A/G          | 1.8 (46.8)     | 0.60 (14.5)   | 0.630 (28.6)  |  |  |
| 11. BNC Male               | Straight Plug    | EZ-400-BM-X       | 3190-2852  | <1.35:1 | (2)      | Knurl                | Spring Finger Crimp  | A/G          | 1.7 (42.7)     | 0.56 (14.2)   | 0.066 (29.9)  |  |  |
| 12. BNC Male               | Right Angle      | EZ-400-BM-RA-X    | 3190-2847  | <1.35:1 | (2)      | Knurl                | Spring Finger Crimp  | A/G          | 1.9 (48.0)     | 1.32 (33.5)   | 0.097 (44.0)  |  |  |
| 13. HN Male                | Straight Plug    | TC-400-HNM        | 3190-923   | <1.25:  | (<1)     | Knurl                | Solder Clamp         | S/G          | 2.3 (59.2)     | 0.88 (22.4)   | 0.25 (113.4)  |  |  |
| 14. HN Male                | Right Angle      | TC-400-HNM-RA     | 3190-2541  | <1.25:1 | (2.5)    | Hex                  | Solder Crimp         | A/G          | 1.6 (41.4)     | 1.56 (39.6)   | 0.198 (90.0)  |  |  |
| 15. UHF Male               | Straight Plug    | EZ-400-UM         | 3190-997   | <1.25:1 | (2.5)    | Knurl                | Spring FingerCrimp   | N/G          | 1.8 (48)       | 0.80 (20.3)   | 0.076 (34.4)  |  |  |
| 16. Mini-UHF               | Straight Plug    | TC-400-MUHF       | 3190-520   | <1.25:1 | (2.5)    | Knurl                | Solder Crimp         | N/G          | 1.1 (28)       | 0.50 (12.7)   | 0.020 (9.1)   |  |  |
| 17. N Female               | Straight Jack    | TC-400-NFC        | 3190-299   | <1.25:1 | (2.5)    | N/A                  | Solder Clamp         | N/S          | 1.6 (41)       | 0.75 (19.1)   | 0.119 (54.0)  |  |  |
| 18. N Female               | Straight Jack    | EZ-400-NF-X       | 3190-2818  | <1.25:1 | (2.5)    | N/A                  | Spring Finger Crimp  | N/G          | 1.8 (45)       | 0.66 (16.8)   | 0.105 (47.6)  |  |  |
| 19. N Female               | Straight Jack    | TC-400-NF-X       | 3190-2815  | <1.25:1 | (2.5)    | N/A                  | Solder Crimp         | N/G          | 1.8 (45)       | 0.66 (16.8)   | 0.105 (47.6)  |  |  |
| 20. N Female               | Bulkhead Jack    | EZ-400-NF-BH      | 3190-518*  | <1.25:1 | (2.5)    | N/A                  | Spring Finger Crimp  | N/G          | 1.8 (46)       | 0.88 (22.4)   | 0.102 (46.3)  |  |  |
| 21. N Female               | Bulkhead Jack    | TC-400-NFC-BH (A) | 3190-872   | <1.25:1 | (2.5)    | N/A                  | Solder Clamp         | A/G          | 1.8 (46)       | 0.88 (22.4)   | 0.145 (65.8)  |  |  |
| 22. N Male                 | Straight Plug    | SC-400-NM         | 3190-1454  | <1.25:1 | (2.5)    | Knurl                | Solder Crimp         | N/G          | 1.5 (38)       | 0.75 (19.1)   | 0.090 (40.8)  |  |  |
| 23. N Male                 | Straight Plug    | TC-400-NMC        | 3190-6077  | <1.25:1 | (2.5)    | Knurl                | Solder Clamp         | N/G          | 1.5 (38)       | 0.70 (17.8)   | 0.121 (54.9)  |  |  |
| 24. N Male                 | Straight Plug    | EZ-400-NMC-2-D    | 3190-2640  | <1.25:1 | (2.5)    | Hex/Knurl            | Spring FingerClamp   | N/G          | 1.5 (38)       | 0.75 (19.1)   | 0.121 (54.9)  |  |  |
| 25. N Male                 | Straight Plug    | EZ-400-NMH-X      | 3190-2590  | <1.25:1 | (10)     | Hex/Knurl            | Spring FingerCrimp   | A/G          | 1.5 (38)       | 0.89 (22.6)   | 0.103 (46.8)  |  |  |
| 26. N Male                 | Straight Plug    | TC-400-NMH-X      | 3190-2626  | <1.25:1 | (10)     | Hex/Knurl            | Solder Crimp         | A/G          | 1.5 (38)       | 0.89 (22.6)   | 0.113 (51.3)  |  |  |
| 27. N Male                 | Right Angle      | EZ-400-NMH-RA-X   | 3190-2638  | <1.35:1 | (6)      | Hex/Knurl            | Spring Finger Crimp  | A/G          | 1.87 (47)      | 1.42 (36.0)   | 0.177 (80.2)  |  |  |
| 28. N Male                 | Right Angle      | TC-400-NMH-RA-SS  | 3190-1668  | <1.25:1 | (2.5)    | Hex                  | Solder Crimp         | SS/G         | 1.5 (38.1)     | 0.89 (2.6)    | 0.130 (59.0)  |  |  |
| 29. N Male                 | Right Angle      | TC-400-NMH-RA-D   | 3190-2293* | <1.35:1 | (6)      | Hex/Knurl            | Solder Crimp         | A/G          | 1.8 (46)       | 1.25 (31.8)   | 0.130 (59.0)  |  |  |
| 30. N Male                 | Right Angle      | TC-400-NMC-RA (A) | 3190-870   | <1.35:1 | (2.5)    | Hex                  | Solder Clamp         | A/G          | 1.8 (46)       | 1.25 (31.8)   | 0.150 (68.0)  |  |  |
| 31. N Male                 | Reverse Polarity | TC-400-NM-RP      | 3190-960   | <1.25:1 | (2.5)    | Knurl                | Solder Crimp         | N/G          | 1.5 (38)       | 0.75 (19.1)   | 0.090 (40.8)  |  |  |
| 32. QN Male                | Straight Plug    | EZ-400-QNM-X      | 3190-2979  | <1.25:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 1.5 (38)       | 0.89 (22.6)   | 0.103 (46.8)  |  |  |
| 33. QN Male                | Staright Plug    | TC-400-QNM-X      | 3190-6212  | <1.25:1 | (6)      | Hex                  | Solder Crimp         | A/G          | 2.0 (50.2)     | 0.74 (18.9)   | 0.103 (46.8)  |  |  |
| 34. QN Male                | Right Angle      | EZ-400-QNM-RA-X   | 3190-2981  | <1.25:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 1.9 (47.0)     | 1.42 (36.0)   | 0.177 (80.2)  |  |  |
| 35. QN Female              | Straight Jack    | EZ-400-QNF-X      | 3190-2980  | <1.25:1 | (6)      | N/A                  | Spring Finger Crimp  | A/G          | 1.8 (45.0)     | 0.66 (16.8)   | 0.105 (47.6)  |  |  |
| 36. SMA Male               | Straight Plug    | TC-400-SM-X       | 3190-3046  | <1.25:1 | (8)      | Hex                  | Solder Crimp         | N/G          | 1.2 (29)       | 0.50 (12.7)   | 0.032 (14.5)  |  |  |
| 37. SMA Female             | Straight Jack    | TC-400-SF-X       | 3190-6174  | <1.35:1 | (6)      | N/A                  | Solder Crimp         | A/G          | 1.2 (29.7)     | 0.50 (12.7)   | 0.026 (12.0)  |  |  |
| 38. TNC Female             | Reverse Polarity | TC-400-TF-RP      | 3190-1063  | <1.25:1 | (2.5)    | N/A                  | Solder Crimp         | N/G          | 1.8 (46)       | 0.55 (14.0)   | 0.074 (33.6)  |  |  |
| 39. TNC Female             | Reverse Polarity | EZ-400-TF-RP      | 3190-795   | <1.25:1 | (2.5)    | N/A                  | Spring Finger Crimp  | A/G          | 1.8 (46)       | 0.55 (14.0)   | 0.074 (33.6)  |  |  |
| 40. TNC Female             | Straight Jack    | EZ-400-TF-X       | 3190-3049  | <1.25:1 | (6)      | N/A                  | Spring Finger Crimp  | A/G          | 1.8 (45)       | 0.55 (14.0)   | 0.074 (33.6)  |  |  |
| 41. TNC Female             | Straight Jack    | TC-400-TF-X       | 3190-3051  | <1.25:1 | (6)      | N/A                  | Solder Crimp         | A/G          | 1.8 (45.0)     | 0.55 (14.0)   | 0.074 (33.6)  |  |  |
| 42. TNC Male               | Straight Plug    | TC-400-TM-X       | 3190-2532  | <1.25:1 | (6)      | Hex/Knurl            | Solder Crimp         | A/G          | 1.9 (48)       | 0.67 (17.5)   | 0.075 (34.3)  |  |  |
| 43. TNC Male               | Straight Plug    | EZ-400-TM-X       | 3190-2533  | <1.25:1 | (6)      | Hex/Knurl            | Spring Finger Crimp  | A/G          | 1.9 (48)       | 0.67 (17.5)   | 0.075 (34.3)  |  |  |
| 44. TNC Male               | Reverse Polarity | TC-400-TM-RP      | 3190-1062  | <1.25:1 | (2.5)    | Knurl                | Solder Crimp         | N/G          | 1.7 (43)       | 0.59 (15.0)   | 0.074 (33.6)  |  |  |
| 45. TNC Male               | Reverse Polarity | EZ-400-TM-RP      | 3190-794   | <1.25:1 | (2.5)    | Knurl                | Spring Finger Crimp  | A/G          | 1.7 (43)       | 0.59 (15.0)   | 0.074 (33.6)  |  |  |
| 46. TNC Male               | Right Angle      | TC-400-TM-RA-D    | 3190-2671  | <1.35:1 | (6)      | Hex/Knurl            | Solder Crimp         | A/G          | 1.4 (35)       | 1.41 (35.8)   | 0.130 (59.0)  |  |  |
| 47. TNC Male               | Right Angle      | EZ-400-TM-RA-X    | 3190-2800  | <1.24:1 | (6)      | Hex                  | Spring Finger Crimp  | A/G          | 2.0 (50.0)     | 0.62 (15.7)   | 0.130 (59.0)  |  |  |
| 48. TNC Male               | Right Angle RP   | TC-400-TM-RP-RA-D | 3190-6147  | <1.35:1 | (6)      | Hex                  | Solder Crimp         | A/G          | 1.4 (36.0)     | 1.20 (30.3)   | 0.130 (59.0)  |  |  |

\* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy \*\*VSWR spec based on 3 foot cable with a connector \*Available in bulk pack

|   |  |  |   |
|---|--|--|---|
| <p>1-2</p>  <p>EZ-400-4195F-X / 3190-2968<br/>TC-400-4195M-X / 3190-2969</p> | <p>3</p>  <p>TC-400-716FC<br/>3190-376</p>        | <p>4</p>  <p>TC-400-716M-RA-D<br/>3190-2598</p>  | <p>5</p>  <p>EZ-400-716M-X<br/>3190-2524</p>       |
| <p>6</p>  <p>TC-400-716M-X<br/>3190-2597</p>                                 | <p>7</p>  <p>TC-400-716MC<br/>3190-279</p>        | <p>8</p>  <p>TC-400-716MC-RA<br/>3190-1671</p>   | <p>9</p>  <p>EZ-400-716M-RA-X<br/>3190-2545</p>    |
| <p>10</p>  <p>TC-400-BM-X<br/>3190-6232</p>                                  | <p>11</p>  <p>EZ-400-BM-X<br/>3190-2852</p>       | <p>12</p>  <p>EZ-400-BM-RA-X<br/>3190-2847</p>   | <p>13</p>  <p>TC-400-HNM<br/>3190-923</p>          |
| <p>14</p>  <p>TC-400-HNM-RA<br/>3190-2541</p>                               | <p>15</p>  <p>EZ-400-UM<br/>3190-997</p>         | <p>16</p>  <p>TC-400-MUHF<br/>3190-520</p>      | <p>17</p>  <p>TC-400-NFC<br/>3190-299</p>         |
| <p>18</p>  <p>EZ-400-NF-X<br/>3190-2818</p>                                | <p>19</p>  <p>TC-400-NF-X<br/>3190-2815</p>     | <p>20</p>  <p>EZ-400-NF-BH<br/>3190-518</p>    | <p>21</p>  <p>TC-400-NFC-BH (A)<br/>3190-872</p> |
| <p>22</p>  <p>SC-400-NM<br/>3190-1454</p>                                  | <p>23</p>  <p>TC-400-NMC<br/>3190-6077</p>      | <p>24</p>  <p>EZ-400-NMC-2-D<br/>3190-2640</p> | <p>25</p>  <p>EZ-400-NMH-X<br/>3190-2590</p>     |
| <p>26</p>  <p>TC-400-NMH-X<br/>3190-2626</p>                               | <p>27</p>  <p>EZ-400-NMH-RA-X<br/>3190-2638</p> |  |   |

|   |  |  |  |
|---|--|--|--|
| <p>28 TC-400-NMH-RA-SS<br/>3190-1668</p>                           | <p>29 TC-400-NMH-RA-D<br/>3190-2293</p>                             | <p>30 TC-400-NMC-RA (A)<br/>3190-870</p>                                     | <p>31 TC-400-NM-RP<br/>3190-960</p>                             |
| <p>32 EZ-400-QNM-X<br/>3190-2979</p>                               | <p>33 TC-400-QNM-X<br/>3190-6212</p>                                | <p>34 EZ-400-QNM-RA-X<br/>3190-2981</p>                                      | <p>35 EZ-400-QNF-X<br/>3190-2980</p>                            |
| <p>36 TC-400-SM-X<br/>3190-3046</p>                                | <p>37 TC-400-SF-X<br/>3190-6174</p>                                 | <p>38-39 TC-400-TF-RP / 3190-1063<br/>EZ-400-TF-RP / 3190-795</p>            | <p>40-41 EZ-400-TF / 3190-3049<br/>TC-400-TF-X / 3190-3051</p>  |
| <p>42-43 TC-400-TM-X / 3190-2532<br/>EZ-400-TM-X / 3190-2533</p>  | <p>44-45 TC-400-TM-RP / 3190-1062<br/>EZ-400-TM-RP / 3190-794</p>  | <p>46-47 TC-400-TM-RA-D<br/>3190-2671<br/>EZ-400-TM-RA-X<br/>3190-2800</p>  | <p>48 TC-400-TM-RP-RA-D<br/>3190-6147</p>                      |

## Hardware

|  |  |   |  |
|--|--|---|--|
| <p>HG-400T</p>  | <p>GK-S400TT</p>  | <p>IPB-400-NM<br/>3109-417-1</p>  | <p>IPB-400-NF<br/>3109-417-2</p>  |
|  |  |   | <p>WSB-400<br/>3109-394</p>       |

| Type                             | Part Number | Stock Code | Description  |
|----------------------------------|-------------|------------|--|
| Hoisting Grip                    | HG-400T     | HG-400T    | Laced Type (each)  |
| Ground Kit                       | GK-S400TT   | GK-S400TT  | Standard Ground Kit (each)   |
| Weather Proof Boots              | 3109-417-1  | IPB-400 NM | LMR-400 Male IP boot suitable for type N, TNC, BNC, 4310, 4195                                 |
| Weather Proof Boots              | 3109-417-2  | IPB-400 NM | LMR-400 Female IP boots suitable for type N, TNC, BNC, 4310, 4195                              |
| Weather Seal Strain Relief Boots | 3109-394    | WSB-400    | Weather seal strain relief boots (10 pk) for use with most popular LMR-400-X series connectors |



## Install Tools

| Type                  | Part Number | Stock Code | Description  |
|-----------------------|-------------|------------|--|
| Crimp Tool            | CT-U        | 3192-181   | Crimp Handle   |
| Crimp Dies            | Y1719       | 3190-202   | .429" Hex Dies   |
| Crimp Tool            | CT-400/300  | 3190-666   | Crimp tool for LMR 400 connectors  |
| Crimp Rings           | CR-400      | 3190-830   | Crimp rings for TC/EZ-400 connectors (package of 10)                                     |
| Strip Tool            | ST-400C-2   | 3190-1972  | Prep tool for EZ-400-NMC-2 two piece clamp style connector                               |
| Strip Tool            | CST-400     | 3192-004   | Combination prep tool for LMR-400 crimp and clamp style connectors                       |
| Mid-Span Strip Tool   | GST-400     | 3190-2174  | For ground strap attachment  |
| Replacement Blades    | RB-456      | 3190-421   | Replacement blades for Strip Tool  |
| Deburr Tool           | DBT-U       | 3192-001   | Removes center conductor rough edges   |
| Cutting Tool          | CCT-02      | 3192-165   | Cable end flush cut tool   |
| Replacement Blade     | RB-02       | 3192-166   | Replacement blade for cutting tool   |
| Tool Kit              | TK-400EZ    | 3190-1601  | Tool kit for LMR-400 Crimp Connectors (includes CCT-02, CST-400, CT-400/300, Tool Pouch) |
| Replacement Blade Kit | RB-CST      | 3192-086   | Replacement blade kit for all CST strip tools  |