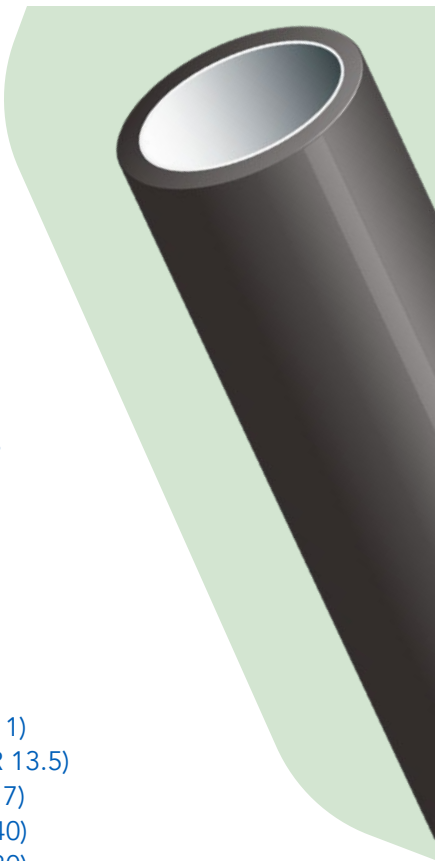


STANDARD

NEMA TC-7

- Meets all standards as outlined in the Polymer Raceway Products Section of NEMA TC-7 in regards to electrical cable installation
- Manufactured from flexible HDPE, makes gradual bends without special equipment
- Continuous lengths reduce joining costs
- Excellent low temperature properties, allows installation in cold climates
- Outstanding long term cable protection from shifting ground, rock and root impingement
- Provides a permanent pathway, simplifies future cable repairs or replacement



| INSTALLATION TYPES | SIZE RANGE AVAILABLE | | | WALL TYPES |
|--------------------|----------------------|------|------|--------------------------------------|
| Existing Conduit | 0.5" | 1.5" | 4.0" | EPEC-11 (SDR-11) |
| Plow | 0.75" | 2.0" | 5.0" | EPEC-13.5 (SDR 13.5) |
| Directional Bore | 1.0" | 2.5" | 6.0" | EPEC-17 (SDR 17) |
| | 1.25" | 3.0" | | EPEC-40 (SCH 40) EPEC-80 (SCH 80) |

STRIPE COLORS



| | |
|-----------------|---|
| FEATURES | STANDARD |
| | PRODUCT SPECIFICATIONS All Smoothwall conduit dimensions meets or exceeds one or more of the following specifications: ASTM F-2160, ASTM D-3485, NEMA TC-7, UL 651A, UL 1990, Bellcore GR-356 |
| | FOOTAGE MARKINGS Sequential foot or meter markings. Custom print streams available |
| | OPTIONS |
| | SILICORE® ULF (Ultra-Low Friction) is co-extruded inside the HDPE wall creating a slick, permanent, interior lining. With a coefficient of friction 60% lower than standard HDPE conduit without the aid of wet lubricants, SILICORE ULF exhibits no loss in performance over time or in extreme temperature conditions. |
| | PREINSTALLED TAPE Factory pre-installed Bull-Line™ Pull Tape with EVEN-LOAD™, ensures extra slack at any access point throughout the reel. Available 500lb - 6,000lb tensile strength or locatable |
| | INTERNAL RIBS Internal straight ribs greatly reduce friction for longer, faster pulls |



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NEMA TC-7 TECHNICAL SPECIFICATIONS

| | WALL TYPE | NOM OD (IN) | OD TOLERANCE +/- | MIN WALL (IN) | WALL TOLERANCE + | AVG ID (IN) | MIN ID (IN) | WEIGHT (LB/FT) | BEND RADIUS SUP (IN) | BEND RADIUS UNSUP (IN) | SWPS (LB) |
|--------|----------------------|-------------|------------------|---------------|------------------|-------------|-------------|----------------|----------------------|------------------------|-----------|
| 1/2" | EPEC-11 (SDR 11) | 0.840 | 0.004 | 0.076 | 0.020 | 0.668 | 0.648 | 0.084 | 8 | 16 | 440 |
| | EPEC-13.5 (SDR 13.5) | 0.840 | 0.004 | 0.062 | 0.020 | 0.696 | 0.676 | 0.072 | 8 | 16 | 365 |
| | EPEC-17 (SDR 17) | - | - | - | - | - | - | - | - | - | - |
| | EPEC-40 (SCH 40) | 0.840 | 0.004 | 0.109 | 0.020 | 0.602 | 0.582 | 0.111 | 8 | 16 | 601 |
| | EPEC-80 (SCH 80) | 0.840 | 0.004 | 0.147 | 0.020 | 0.526 | 0.506 | 0.139 | 8 | 16 | 768 |
| 3/4" | EPEC-11 (SDR 11) | 1.050 | 0.005 | 0.095 | 0.020 | 0.840 | 0.820 | 0.128 | 10 | 20 | 687 |
| | EPEC-13.5 (SDR 13.5) | 1.050 | 0.005 | 0.078 | 0.020 | 0.874 | 0.854 | 0.110 | 10 | 20 | 570 |
| | EPEC-17 (SDR 17) | 1.050 | 0.005 | 0.062 | 0.020 | 0.906 | 0.886 | 0.084 | 10 | 20 | 460 |
| | EPEC-40 (SCH 40) | 1.050 | 0.005 | 0.113 | 0.020 | 0.804 | 0.784 | 0.148 | 10 | 20 | 798 |
| | EPEC-80 (SCH 80) | 1.050 | 0.005 | 0.154 | 0.020 | 0.722 | 0.702 | 0.188 | 10 | 20 | 1,040 |
| 1" | EPEC-11 (SDR 11) | 1.315 | 0.007 | 0.120 | 0.020 | 1.055 | 1.035 | 0.199 | 13 | 26 | 1,078 |
| | EPEC-13.5 (SDR 13.5) | 1.315 | 0.007 | 0.097 | 0.020 | 1.101 | 1.081 | 0.167 | 13 | 26 | 894 |
| | EPEC-17 (SDR 17) | 1.315 | 0.007 | 0.077 | 0.020 | 1.141 | 1.121 | 0.138 | 13 | 26 | 722 |
| | EPEC-40 (SCH 40) | 1.315 | 0.007 | 0.133 | 0.020 | 1.029 | 1.009 | 0.217 | 13 | 26 | 1,340 |
| | EPEC-80 (SCH 80) | 1.315 | 0.007 | 0.179 | 0.021 | 0.936 | 0.915 | 0.276 | 13 | 26 | 1,533 |
| 1 1/4" | EPEC-11 (SDR 11) | 1.660 | 0.008 | 0.151 | 0.020 | 1.338 | 1.318 | 0.312 | 17 | 34 | 1,717 |
| | EPEC-13.5 (SDR 13.5) | 1.660 | 0.008 | 0.123 | 0.020 | 1.394 | 1.374 | 0.263 | 17 | 34 | 1,425 |
| | EPEC-17 (SDR 17) | 1.660 | 0.008 | 0.098 | 0.020 | 1.440 | 1.424 | 0.217 | 17 | 34 | 1,150 |
| | EPEC-40 (SCH 40) | 1.660 | 0.008 | 0.140 | 0.020 | 1.360 | 1.340 | 0.293 | 17 | 34 | 1,604 |
| | EPEC-80 (SCH 80) | 1.660 | 0.008 | 0.191 | 0.023 | 1.255 | 1.232 | 0.382 | 17 | 34 | 2,116 |
| 1 1/2" | EPEC-11 (SDR 11) | 1.900 | 0.010 | 0.173 | 0.021 | 1.533 | 1.512 | 0.408 | 19 | 38 | 2,249 |
| | EPEC-13.5 (SDR 13.5) | 1.900 | 0.010 | 0.141 | 0.020 | 1.598 | 1.578 | 0.342 | 19 | 38 | 1,867 |
| | EPEC-17 (SDR 17) | 1.900 | 0.010 | 0.112 | 0.020 | 1.656 | 1.636 | 0.281 | 19 | 38 | 1,507 |
| | EPEC-40 (SCH 40) | 1.900 | 0.010 | 0.145 | 0.020 | 1.590 | 1.570 | 0.350 | 19 | 38 | 1,919 |
| | EPEC-80 (SCH 80) | 1.900 | 0.010 | 0.200 | 0.024 | 1.476 | 1.452 | 0.463 | 19 | 38 | 2,564 |
| 2" | EPEC-11 (SDR 11) | 2.375 | 0.012 | 0.216 | 0.026 | 1.917 | 1.891 | 0.636 | 24 | 48 | 3,515 |
| | EPEC-13.5 (SDR 13.5) | 2.375 | 0.012 | 0.176 | 0.021 | 2.002 | 1.981 | 0.528 | 24 | 48 | 2,917 |
| | EPEC-17 (SDR 17) | 2.375 | 0.012 | 0.140 | 0.020 | 2.075 | 2.055 | 0.432 | 24 | 48 | 2,355 |
| | EPEC-40 (SCH 40) | 2.375 | 0.012 | 0.154 | 0.020 | 2.047 | 2.027 | 0.469 | 24 | 48 | 2,579 |
| | EPEC-80 (SCH 80) | 2.375 | 0.012 | 0.218 | 0.026 | 1.913 | 1.887 | 0.641 | 24 | 48 | 2,545 |



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NEMA TC-7 TECHNICAL SPECIFICATIONS

| | WALL TYPE | NOM OD (IN) | OD TOLERANCE +/- | MIN WALL (IN) | WALL TOLERANCE + | AVG ID (IN) | MIN ID (IN) | WEIGHT (LB/FT) | BEND RADIUS SUP (IN) | BEND RADIUS UNSUP (IN) | SWPS (LB) |
|--------|----------------------|-------------|------------------|---------------|------------------|-------------|-------------|----------------|----------------------|------------------------|-----------|
| 2 1/2" | EPEC-11 (SDR 11) | 2.875 | 0.014 | 0.261 | 0.031 | 2.322 | 2.291 | 0.930 | 29 | 58 | 5,151 |
| | EPEC-13.5 (SDR 13.5) | 2.875 | 0.014 | 0.213 | 0.026 | 2.423 | 2.397 | 0.775 | 29 | 58 | 4,274 |
| | EPEC-17 (SDR 17) | 2.875 | 0.014 | 0.169 | 0.020 | 2.517 | 2.497 | 0.625 | 29 | 58 | 3,450 |
| | EPEC-40 (SCH 40) | 2.875 | 0.014 | 0.203 | 0.024 | 2.445 | 2.421 | 0.740 | 29 | 58 | 4,090 |
| | EPEC-80 (SCH 80) | 2.875 | 0.014 | 0.276 | 0.033 | 2.290 | 2.257 | 0.978 | 29 | 58 | 5,409 |
| 3" | EPEC-11 (SDR 11) | 3.500 | 0.018 | 0.318 | 0.038 | 2.826 | 2.788 | 1.380 | 39 | 78 | 7,633 |
| | EPEC-13.5 (SDR 13.5) | 3.500 | 0.018 | 0.259 | 0.031 | 2.951 | 2.920 | 1.146 | 39 | 78 | 6,335 |
| | EPEC-17 (SDR 17) | 3.500 | 0.018 | 0.206 | 0.025 | 3.063 | 3.038 | 0.928 | 39 | 78 | 5,114 |
| | EPEC-40 (SCH 40) | 3.500 | 0.018 | 0.216 | 0.026 | 3.042 | 3.016 | 0.969 | 39 | 78 | 5,348 |
| | EPEC-80 (SCH 80) | 3.500 | 0.018 | 0.300 | 0.036 | 2.864 | 2.828 | 1.310 | 39 | 78 | 7,238 |
| 4" | EPEC-11 (SDR 11) | 4.500 | 0.023 | 0.409 | 0.049 | 3.633 | 3.584 | 2.282 | 50 | 100 | 12,618 |
| | EPEC-13.5 (SDR 13.5) | 4.500 | 0.023 | 0.333 | 0.040 | 3.794 | 3.754 | 1.895 | 50 | 100 | 10,472 |
| | EPEC-17 (SDR 17) | 4.500 | 0.023 | 0.265 | 0.032 | 3.938 | 3.906 | 1.534 | 50 | 100 | 8,453 |
| | EPEC-40 (SCH 40) | 4.500 | 0.023 | 0.237 | 0.028 | 3.998 | 3.970 | 1.380 | 50 | 100 | 7,618 |
| | EPEC-80 (SCH 80) | 4.500 | 0.023 | 0.337 | 0.040 | 3.786 | 3.746 | 1.914 | 50 | 100 | 10,578 |
| 5" | EPEC-11 (SDR 11) | 5.563 | 0.028 | 0.506 | 0.061 | 4.490 | 4.429 | 3.490 | 61 | 122 | 19,284 |
| | EPEC-13.5 (SDR 13.5) | 5.563 | 0.028 | 0.412 | 0.049 | 4.690 | 4.641 | 2.896 | 61 | 122 | 16,004 |
| | EPEC-17 (SDR 17) | 5.563 | 0.028 | 0.327 | 0.039 | 4.870 | 4.831 | 2.339 | 61 | 122 | 12,918 |
| | EPEC-40 (SCH 40) | 5.563 | 0.028 | 0.258 | 0.028 | 5.016 | 4.985 | 1.872 | 61 | 122 | 10,320 |
| | EPEC-80 (SCH 80) | 5.563 | 0.028 | 0.375 | 0.045 | 4.768 | 4.723 | 2.657 | 61 | 122 | 14,669 |
| 6" | EPEC-11 (SDR 11) | 6.625 | 0.033 | 0.602 | 0.072 | 5.349 | 5.277 | 4.944 | 73 | 146 | 27,349 |
| | EPEC-13.5 (SDR 13.5) | 6.625 | 0.033 | 0.491 | 0.059 | 5.584 | 5.525 | 4.112 | 73 | 146 | 22,697 |
| | EPEC-17 (SDR 17) | 6.625 | 0.033 | 0.390 | 0.047 | 5.798 | 5.751 | 3.324 | 73 | 146 | 18,321 |
| | EPEC-40 (SCH 40) | 6.625 | 0.033 | 0.280 | 0.034 | 6.031 | 5.997 | 2.432 | 73 | 146 | 13,395 |
| | EPEC-80 (SCH 80) | 6.625 | 0.033 | 0.432 | 0.052 | 5.709 | 5.657 | 3.656 | 73 | 146 | 20,172 |

NEMA TC-7 NOTES:

- Bend Radius
 1/2" through 2 1/2" Supported Bend Radius 10 times the OD Unsupported Bend Radius 20 times the OD
 3" through 6" Supported Bend Radius 11 times the OD Unsupported Bend Radius 22 times the OD
- During cable placement, large sweeping bends are recommended over tighter bends. Pre-formed sweeps are recommended for conduit sizes 8" through 16" diameters.
- SWPS (Safe Working Pull Strength) is calculated using a 25% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and average wall thickness.
- Internal or external ribs are in addition to the average wall and for determining OD and ID dimensions. The average rib height to be added is 0.020".
- Add 0.016 #/ft for ribbed products 1 1/2" and less. For 2" and larger, add 0.025 #/ft.



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