

600V Power and Control; Multi-Conductor Tray Cables

Construction Parameters:

| | |
|-------------|---|
| Conductor: | 18 to 6 AWG Stranded Bare Copper |
| Insulation: | PVC/Nylon |
| Color Code: | ICEA Method 4 - Black and printed with conductor number & Green/Yellow Ground |
| Cabling: | Conductors cabled together with polypropylene fillers as necessary |

| | |
|-------------------|--|
| Outer Jacket: | TPE |
| Jacket Separator: | Rip Cord as necessary |
| Jacket Color: | Gray |
| Legend: | SOUTHWIRE® XX AWG (XX.Xmm2) X/C PVC/NYLON-TPE TYPE TC-ER E75755 (UL) 600V 90C DRY/75C WET OR WTTC 1000V OIL RES I/II SUNLIGHT RESISTANT --- 156205 CSA TC/CIC 105C DRY/75C WET 600V SR OIL RES -40C FT1 FT4 OR AWM I/II A/B 105C W75 1000V -40C FT1 FT4 |

Physical Properties:

| | |
|---|--|
| Temperature Range: | -40°C to 90°C Dry/75°C Wet (UL); -40°C to 105°C Dry/75°C Wet (CSA) |
| Minimum ambient temperature storage: | -20°C |
| Minimum ambient temperature operation: | -40°C |
| Minimum ambient temperature installation: | -20°C |

Electrical Properties:

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|-----------------|----------------|
| Voltage Rating: | 600V/1000V RMS |
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Industry Approvals:

| | |
|---------------|-------------------------|
| UL: | TC-ER, WTTC |
| CSA: | TC/CIC, AWM |
| Flame Tests: | |
| UL: | 1685 |
| CSA: | FT1, FT4 |
| UL Standard: | 1277, 2277 |
| CSA Standard: | C22.2 No. 210, 230, 239 |

Features:

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|--------------------|
| Oil Resistant I/II |
| Sunlight Resistant |
| Water Resistant |

Compliance:

| | |
|-------|---|
| RoHS: | European Directive (EU) 2015/863 – RoHS 3 |
| NEC: | Article 336, 392 |

| Southwire Part Number | Voltage | No. Cond. | Cond & Grnd AWG | No. Strands | Nom. Cond. | | Insulation Wall, Nom. | | Jacket Wall, Nom. | | Measured | | O.D., Nom. | | Measured | | Tolerance | | Net Weight | |
|-----------------------|----------|-----------|-----------------|-------------|------------|--------|-----------------------|--------|-------------------|-----------|----------|-------|------------|----------|----------|----------|-----------|-----|------------|--|
| | | | | | DCR Ω/M' | Inches | mm | Inches | mm | Ave. Wall | Inches | mm | O.D. | O.D. | Lb./kft. | kg/km | | | | |
| 165000 | 600/1000 | 2 | 18 | 16/30 | 6.40 | 0.021 | 0.53 | 0.047 | 1.19 | | | 0.264 | 6.71 | | | +/- 2.5% | 35 | 161 | | |
| 165001 | 600/1000 | 6 | 18 | 16/30 | 6.40 | 0.021 | 0.53 | 0.047 | 1.19 | 0.057 | 0.352 | 8.94 | 0.354 | +/- 2.5% | 71 | 106 | | | | |
| 165002 | 600/1000 | 8 | 18 | 16/30 | 6.40 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.379 | 9.63 | | +/- 2.5% | 88 | 137 | | | | |
| 165003 | 600/1000 | 2 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.292 | 7.42 | | +/- 2.5% | 45 | 141 | | | | |
| 165004 | 600/1000 | 3 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | 0.052 | 0.305 | 7.75 | 0.330 | +/- 2.5% | 56 | 84 | | | | |
| 165005 | 600/1000 | 4 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | 0.050 | 0.333 | 8.46 | 0.346 | +/- 2.5% | 69 | 103 | | | | |
| 165006 | 600/1000 | 5 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.364 | 9.25 | | +/- 2.5% | 84 | 125 | | | | |
| 165007 | 600/1000 | 6 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | 0.050 | 0.394 | 10.01 | 0.408 | +/- 2.5% | 96 | 143 | | | | |
| 165008 | 600/1000 | 8 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | 0.069 | 0.425 | 10.80 | 0.468 | +/- 2.5% | 118 | 176 | | | | |
| 165009 | 600/1000 | 10 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | 0.060 | 0.485 | 12.32 | 0.495 | +/- 2.5% | 148 | 221 | | | | |
| 165010 | 600/1000 | 12 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.503 | 12.78 | | +/- 2.5% | 171 | 254 | | | | |
| 165011 | 600/1000 | 14 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.561 | 14.25 | | +/- 2.5% | 209 | 311 | | | | |
| 165012 | 600/1000 | 20 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.062 | 1.57 | 0.063 | 0.646 | 16.41 | 0.651 | +/- 2.5% | 285 | 425 | | | | |
| 165013 | 600/1000 | 25 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.712 | 18.08 | | +/- 2.5% | 347 | 516 | | | | |
| 165014 | 600/1000 | 26 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.716 | 18.19 | | +/- 2.5% | 358 | 533 | | | | |
| 165015 | 600/1000 | 30 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.755 | 19.18 | | +/- 2.5% | 405 | 603 | | | | |
| 165016 | 600/1000 | 37 | 16 | 26/30 | 4.18 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.812 | 20.62 | | +/- 2.5% | 489 | 727 | | | | |
| 165017 | 600/1000 | 2 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | 0.047 | 0.321 | 8.15 | 0.330 | +/- 2.5% | 58 | 87 | | | | |
| 165018 | 600/1000 | 3 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | 0.043 | 0.336 | 8.53 | 0.347 | +/- 2.5% | 75 | 111 | | | | |
| 165019 | 600/1000 | 4 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | 0.049 | 0.369 | 9.37 | 0.381 | +/- 2.5% | 94 | 140 | | | | |
| 165020 | 600/1000 | 5 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.405 | 10.29 | | +/- 2.5% | 113 | 169 | | | | |
| 165021 | 600/1000 | 6 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | 0.054 | 0.439 | 11.15 | 0.438 | +/- 2.5% | 131 | 195 | | | | |
| 165022 | 600/1000 | 7 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.439 | 11.15 | | +/- 2.5% | 147 | 219 | | | | |
| 165023 | 600/1000 | 8 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.475 | 12.07 | | +/- 2.5% | 167 | 248 | | | | |
| 165024 | 600/1000 | 9 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.510 | 12.95 | | +/- 2.5% | 186 | 277 | | | | |
| 165025 | 600/1000 | 12 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.594 | 15.09 | | +/- 2.5% | 253 | 377 | | | | |
| 165026 | 600/1000 | 16 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.062 | 1.57 | 0.065 | 0.660 | 16.76 | 0.685 | +/- 2.5% | 323 | 481 | | | | |
| 165027 | 600/1000 | 24 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.794 | 20.17 | | +/- 2.5% | 464 | 691 | | | | |
| 165028 | 600/1000 | 30 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.082 | 2.08 | | 0.889 | 22.58 | | +/- 2.5% | 597 | 889 | | | | |
| 165029 | 600/1000 | 37 | 14 | 41/30 | 2.62 | 0.021 | 0.53 | 0.082 | 2.08 | | 0.955 | 24.26 | | +/- 2.5% | 719 | 1070 | | | | |
| 165030 | 600/1000 | 2 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.047 | 1.19 | 0.050 | 0.359 | 9.12 | 0.376 | +/- 2.5% | 79 | 117 | | | | |
| 165031 | 600/1000 | 3 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.047 | 1.19 | 0.050 | 0.376 | 9.55 | 0.405 | +/- 2.5% | 104 | 154 | | | | |
| 165032 | 600/1000 | 4 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.414 | 10.52 | | +/- 2.5% | 131 | 196 | | | | |
| 165033 | 600/1000 | 5 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.047 | 1.19 | 0.061 | 0.456 | 11.58 | 0.487 | +/- 2.5% | 160 | 238 | | | | |
| 165034 | 600/1000 | 6 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.047 | 1.19 | 0.057 | 0.496 | 12.60 | 0.514 | +/- 2.5% | 186 | 276 | | | | |
| 165035 | 600/1000 | 7 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.047 | 1.19 | | 0.496 | 12.60 | | +/- 2.5% | 211 | 313 | | | | |
| 165036 | 600/1000 | 8 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.062 | 1.57 | 0.067 | 0.568 | 14.43 | 0.570 | +/- 2.5% | 251 | 374 | | | | |
| 165037 | 600/1000 | 9 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.062 | 1.57 | 0.064 | 0.609 | 15.47 | 0.624 | +/- 2.5% | 281 | 418 | | | | |
| 165038 | 600/1000 | 12 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.062 | 1.57 | | 0.672 | 17.07 | | +/- 2.5% | 360 | 536 | | | | |
| 165039 | 600/1000 | 15 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.062 | 1.57 | 0.067 | 0.742 | 18.85 | 0.774 | +/- 2.5% | 441 | 657 | | | | |
| 165040 | 600/1000 | 16 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.062 | 1.57 | 0.064 | 0.748 | 19.00 | 0.737 | +/- 2.5% | 472 | 702 | | | | |
| 165041 | 600/1000 | 24 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.082 | 2.08 | | 0.945 | 24.00 | | +/- 2.5% | 707 | 1053 | | | | |
| 165042 | 600/1000 | 25 | 12 | 65/30 | 1.65 | 0.021 | 0.53 | 0.082 | 2.08 | | 0.951 | 24.16 | | +/- 2.5% | 733 | 1090 | | | | |
| 165043 | 600/1000 | 2 | 10 | 104/30 | 1.04 | 0.026 | 0.66 | 0.047 | 1.19 | | 0.426 | 10.82 | | +/- 2.5% | 118 | 176 | | | | |
| 165044 | 600/1000 | 3 | 10 | 104/30 | 1.04 | 0.026 | 0.66 | 0.047 | 1.19 | 0.059 | 0.448 | 11.38 | 0.493 | +/- 2.5% | 157 | 233 | | | | |
| 165045 | 600/1000 | 4 | 10 | 104/30 | 1.04 | 0.026 | 0.66 | 0.047 | 1.19 | | 0.496 | 12.60 | | +/- 2.5% | 197 | 293 | | | | |
| 165046 | 600/1000 | 5 | 10 | 104/30 | 1.04 | 0.026 | 0.66 | 0.062 | 1.57 | | 0.578 | 14.68 | | +/- 2.5% | 261 | 389 | | | | |
| 165047 | 600/1000 | 2 | 8 | 168/30 | 0.67 | 0.037 | 0.94 | 0.062 | 1.57 | | 0.572 | 14.53 | | +/- 2.5% | 196 | 291 | | | | |
| 165048 | 600/1000 | 3 | 8 | 168/30 | 0.67 | 0.037 | 0.94 | 0.062 | 1.57 | | 0.602 | 15.29 | | +/- 2.5% | 259 | 385 | | | | |
| 165049 | 600/1000 | 4 | 8 | 168/30 | 0.67 | 0.037 | 0.94 | 0.062 | 1.57 | 0.065 | 0.667 | 16.94 | 0.705 | +/- 2.5% | 345 | 513 | | | | |
| 165050 | 600/1000 | 5 | 8 | 168/30 | 0.67 | 0.037 | 0.94 | 0.062 | 1.57 | | 0.737 | 18.72 | | +/- 2.5% | 402 | 599 | | | | |
| 165051 | 600/1000 | 3 | 6 | 259/30 | 0.42 | 0.037 | 0.94 | 0.062 | 1.57 | | 0.671 | 17.04 | | +/- 2.5% | 367 | 546 | | | | |

| | | | | | | | | | | | | | | | | |
|--------|----------|---|---|--------|------|-------|------|-------|------|-------|-------|-------|-------|----------|-----|-----|
| 165052 | 600/1000 | 4 | 6 | 259/30 | 0.42 | 0.037 | 0.94 | 0.062 | 1.57 | 0.073 | 0.745 | 18.92 | 0.787 | +/- 2.5% | 472 | 703 |
| 165053 | 600/1000 | 5 | 6 | 259/30 | 0.42 | 0.037 | 0.94 | 0.082 | 2.08 | | 0.866 | 22.00 | | +/- 2.5% | 610 | 908 |

Note: Two conductor cables will be marked TC not TC-ER. All dimensions & weights are nominal subject to industry standards and tolerances unless otherwise noted.

Complies with EU Dir. 2011/65/EU (RoHS-2)
The customer will accept all factory lengths and +/- 10 percent of total order requested.

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Designed By PEM
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