

# Industrial Data Solutions® — LonWorks Cables



| Description | Part No. | UL NEC/<br>C(UL) CEC<br>Type | Standard Lengths |   | Standard Unit Weight |    | Conductor<br>(stranding)<br>Diameter<br>Nom. DCR | Nominal Core OD |    | Shielding<br>Materials<br>Nom. DCR | Nominal OD |    | Nom. Imp.<br>(Ω) | Nom. Vel.<br>of Prop. | Nominal Capacitance |      | Nominal Attenuation |                |             |
|-------------|----------|------------------------------|------------------|---|----------------------|----|--------------------------------------------------|-----------------|----|------------------------------------|------------|----|------------------|-----------------------|---------------------|------|---------------------|----------------|-------------|
|             |          |                              | Ft.              | m | Lbs.                 | kg |                                                  | Inch            | mm |                                    | Inch       | mm |                  |                       | pF/Ft.              | pF/m | MHz                 | dB/<br>100 Ft. | dB/<br>100m |

## 22 AWG Solid Bare Copper • Twisted Pairs

### Foam Polyethylene Insulation • White Low Smoke, Zero Halogen Jacket (Colour Code: White/Blue, Blue/White)

|      |        |                       |              |            |              |            |                            |      |     |   |      |     |     |     |      |      |      |     |     |
|------|--------|-----------------------|--------------|------------|--------------|------------|----------------------------|------|-----|---|------|-----|-----|-----|------|------|------|-----|-----|
| 80°C | 7701NH | IEC 332-3C<br>BS 7655 | 1000<br>1640 | 305<br>500 | 10.6<br>17.6 | 4.8<br>8.0 | 22 AWG<br>(solid)<br>.025" | .091 | 2.3 | — | .138 | 3.5 | 100 | 68% | 14.0 | 46.0 | .772 | .4  | 1.3 |
|      |        |                       |              |            |              |            | 16.8Ω/M'                   |      |     |   |      |     |     |     |      |      | 1    | .5  | 1.5 |
|      |        |                       |              |            |              |            | 55.0Ω/km                   |      |     |   |      |     |     |     |      |      | 4    | .9  | 3.1 |
|      |        |                       |              |            |              |            |                            |      |     |   |      |     |     |     |      |      | 10   | 1.5 | 4.9 |
|      |        |                       |              |            |              |            |                            |      |     |   |      |     |     |     |      |      | 16   | 1.9 | 6.3 |
|      |        |                       |              |            |              |            |                            |      |     |   |      |     |     |     |      |      | 20   | 2.1 | 6.9 |



### Foam Polyethylene Insulation • White Low Smoke, Zero Halogen Jacket (Colour Code: White/Blue, Blue/White; Orange/White, White/Orange)

|      |        |                       |      |     |      |     |                            |      |     |   |      |     |     |     |      |      |      |     |     |
|------|--------|-----------------------|------|-----|------|-----|----------------------------|------|-----|---|------|-----|-----|-----|------|------|------|-----|-----|
| 80°C | 7702NH | IEC 332-3C<br>BS 7655 | 1000 | 305 | 19.6 | 8.9 | 22 AWG<br>(solid)<br>.025" | .158 | 4.0 | — | .205 | 5.2 | 100 | 68% | 14.0 | 46.0 | .772 | .4  | 1.3 |
|      |        |                       |      |     |      |     | 16.8Ω/M'                   |      |     |   |      |     |     |     |      |      | 1    | .5  | 1.5 |
|      |        |                       |      |     |      |     | 55.0Ω/km                   |      |     |   |      |     |     |     |      |      | 4    | .9  | 3.1 |
|      |        |                       |      |     |      |     |                            |      |     |   |      |     |     |     |      |      | 10   | 1.5 | 4.9 |
|      |        |                       |      |     |      |     |                            |      |     |   |      |     |     |     |      |      | 16   | 1.9 | 6.3 |
|      |        |                       |      |     |      |     |                            |      |     |   |      |     |     |     |      |      | 20   | 2.1 | 6.9 |



## 22 AWG Solid Bare Copper • Twisted Pairs • Overall 100% Beldfoil® Shield • 24 AWG Stranded Tinned Copper Drain Wire

### Foam Polyolefin Insulation • White Low Smoke, Zero Halogen Jacket (Colour Code: White/Blue, Blue/White)

|      |        |                       |      |     |      |     |                            |      |     |                  |      |     |     |     |      |      |      |     |     |
|------|--------|-----------------------|------|-----|------|-----|----------------------------|------|-----|------------------|------|-----|-----|-----|------|------|------|-----|-----|
| 80°C | 7703NH | IEC 332-3C<br>BS 7655 | 1000 | 305 | 17.8 | 8.1 | 22 AWG<br>(solid)<br>.025" | .122 | 3.1 | 100%<br>Beldfoil | .181 | 4.6 | 100 | 68% | 24.4 | 80.0 | .772 | .5  | 1.8 |
|      |        |                       |      |     |      |     | 16.8Ω/M'                   |      |     | 10.4Ω/M'         |      |     |     |     |      |      | 1    | .6  | 2.0 |
|      |        |                       |      |     |      |     | 55.0Ω/km                   |      |     | 34.0Ω/km         |      |     |     |     |      |      | 4    | 1.1 | 3.6 |
|      |        |                       |      |     |      |     |                            |      |     |                  |      |     |     |     |      |      | 10   | 1.7 | 5.5 |
|      |        |                       |      |     |      |     |                            |      |     |                  |      |     |     |     |      |      | 16   | 2.1 | 7.0 |
|      |        |                       |      |     |      |     |                            |      |     |                  |      |     |     |     |      |      | 20   | 2.4 | 7.8 |



### Foam Polyethylene Insulation • White Low Smoke, Zero Halogen Jacket (Colour Code: White/Blue, Blue/White; Orange/White, White/Orange)

|      |        |                       |                      |                    |                      |                      |                            |      |     |                  |      |     |     |     |      |      |      |     |     |
|------|--------|-----------------------|----------------------|--------------------|----------------------|----------------------|----------------------------|------|-----|------------------|------|-----|-----|-----|------|------|------|-----|-----|
| 80°C | 7704NH | IEC 332-3C<br>BS 7655 | 1000<br>1640<br>3109 | 305<br>500<br>1020 | 27.1<br>44.3<br>88.5 | 12.3<br>20.1<br>40.2 | 22 AWG<br>(solid)<br>.025" | .209 | 5.3 | 100%<br>Beldfoil | .256 | 6.5 | 100 | 68% | 12.2 | 40.0 | .772 | .5  | 1.8 |
|      |        |                       |                      |                    |                      |                      | 16.8Ω/M'                   |      |     | 5.2Ω/M'          |      |     |     |     |      |      | 1    | .6  | 2.0 |
|      |        |                       |                      |                    |                      |                      | 55.0Ω/km                   |      |     | 17.0Ω/km         |      |     |     |     |      |      | 4    | 1.1 | 3.6 |
|      |        |                       |                      |                    |                      |                      |                            |      |     |                  |      |     |     |     |      |      | 10   | 1.7 | 5.5 |
|      |        |                       |                      |                    |                      |                      |                            |      |     |                  |      |     |     |     |      |      | 16   | 2.1 | 7.0 |
|      |        |                       |                      |                    |                      |                      |                            |      |     |                  |      |     |     |     |      |      | 20   | 2.4 | 7.8 |



DCR = DC Resistance