



## Specification Sheet

**BWC Part Number #: BWC-16-24PRPLTC-OS**

### 16AWG PLTC OS Instrumentation Cables 300V 105°C

**APPLICATION:** Power Limited Tray Cable (PLTC) Instrumentation Cables are suitable for control, instrumentation, and process control circuits where protection against electrostatic interference is needed. These cables are approved for direct burial and can be installed in cable trays, ducts, aerially, or conduits in both wet or dry, indoor or outdoor locations. They are rated for applications up to 300 volts and temperatures up to 105°C.

#### CONSTRUCTION:

- **CONDUCTORS:** Stranded soft drawn bare copper conductor, per ASTM B3 & B-8.
- **INSULATION:** Polyvinyl Chloride (PVC) insulation.
- **SHIELD:** An aluminum polyester foil with 100% coverage that is in contact with a tinned copper drain wire.
- **JACKET:** A Polyvinyl Chloride (PVC) jacket, which is water, chemical, sunlight, and abrasion resistant.
- **COLOR CODE:**
  - Pairs: Black and White Numbered.
  - Triads: Black, White, and Red Numbered.

#### STANDARDS:

- UL 13
- UL 2250
- NEC Article 727 for ITC
- EPA 40 CFR, part 261

| Part Number    | Size AWG | No. of Pairs | No. of Triads | Jacket Thickness (inches) | Overall Diameter (inches) | Net Weight (lbs/kft) |
|----------------|----------|--------------|---------------|---------------------------|---------------------------|----------------------|
| 16-01PRPLTC-OS | 16       | 1            |               | 0.035                     | 0.254                     | 47                   |

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| Part Number    | Size AWG | No. of Pairs | No. of Triads | Jacket Thickness (inches) | Overall Diameter (inches) | Net Weight (lbs/kft) |
|----------------|----------|--------------|---------------|---------------------------|---------------------------|----------------------|
| 16-02PRPLTC-OS | 16       | 2            |               | 0.45                      | 0.339                     | 91                   |
| 16-04PRPLTC-OS | 16       | 4            |               | 0.052                     | 0.464                     | 142                  |
| 16-08PRPLTC-OS | 16       | 8            |               | 0.06                      | 0.633                     | 256                  |
| 16-12PRPLTC-OS | 16       | 12           |               | 0.06                      | 0.748                     | 357                  |
| 16-16PRPLTC-OS | 16       | 16           |               | 0.06                      | 0.844                     | 454                  |
| 16-24PRPLTC-OS | 16       | 24           |               | 0.072                     | 1.026                     | 667                  |
| 16-36PRPLTC-OS | 16       | 36           |               | 0.072                     | 1.224                     | 956                  |
| 16-50PRPLTC-OS | 16       | 50           |               | 0.08                      | 1.437                     | 1314                 |
| 16-01TRPLTC-OS | 16       |              | 1             | 0.035                     | 0.267                     | 58                   |
| 16-02TRPLTC-OS | 16       |              | 2             | 0.052                     | 0.46                      | 126                  |
| 16-04TRPLTC-OS | 16       |              | 4             | 0.052                     | 0.533                     | 192                  |
| 16-08TRPLTC-OS | 16       |              | 8             | 0.06                      | 0.713                     | 352                  |
| 16-12TRPLTC-OS | 16       |              | 12            | 0.06                      | 0.863                     | 500                  |
| 16-16TRPLTC-OS | 16       |              | 16            | 0.072                     | 0.981                     | 661                  |
| 16-24TRPLTC-OS | 16       |              | 24            | 0.072                     | 1.212                     | 954                  |
| 16-36TRPLTC-OS | 16       |              | 36            | 0.08                      | 1.41                      | 1349                 |
| 16-50TRPLTC-OS | 16       |              | 50            | 0.09                      | 1.681                     | 1923                 |

**ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.**

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