Control/Instrumentation

# Chem-Gard® 200 Individually Shielded Multi-Pair Control/Resolver Cable

The Chem-Gard® 200 Individually Shielded Multi-Pair Control/Resolver Cable is a high-temperature and chemical-resistant cable for control and instrumentation applications that can withstand a maximum conductor temperature of 200°C/392°F. This control and instrumentation cable features individually shielded pairs with overall shielding and a fluoropolymer jacket that provides excellent chemical, abrasion and high heat resistance. Nickel-plated copper braid shield provides protection from EM and RF interference.

**Ratings** RoHS compliant | 600V | Max Conductor Temperature 200°C | Cold Temperature Rating -60°C | AWM Style 2750 | CSA Standard C22.2 No. 210-15 AWG Class I/II Group A/B FT1 | FT1 Flame Rating | VW-1 Flame Rating

**Performance Characteristics** ✓ Bend Radius (Static): 12x Cable O.D. ✓ Bend Radius (Dynamic): 15x Cable O.D.

**Engineered to Resist** Abrasion | High Temperature | Cold Temperature | Chemicals

## Features & Benefits

### Finely Stranded Nickel-Plated Copper Conductors

Fine stranding improves flex-life and reduces conductor fatigue and breakage. Nickel-plated conductors allow for high heat resistance.

### Specially Compounded Fluoropolymer Insulation

High dielectric, tensile, and mechanical properties. Offers superior resistance to lubricating oils, coolants, cutting oils, acids, and most chemicals.

### Ultra-Shield Nickel-Plated Copper Braid Shield Plus Aluminum/Polyester Foil Shield Construction

Provides 100% protection against EM and RF interference and a low impedance path to ground. Protects equipment and motor damage from electrical noise and "stray voltage".

### Specially Compounded Fluoropolymer Jacket

Ideal for environments where harsh chemicals are present. Superior resistance to oils, acids, solvents, and chemicals. Excellent defense against cutting and abrasion.

## Ordering Information

*For complete product ordering information, please scan the QR Code or contact your TPC sales representative*

| Part No. | Configuration AWG/Cond | Ampacity* | Nominal O.D. (in) | W.T. (lbs) Per 1,000 ft. | Standard Cable Gland** |
|---|---|---|---|---|---|
| 45502 | 18/2 PR | 17 | 0.292 | 85 | 55003 |
| 45503 | 18/3 PR | 17 | 0.325 | 98 | 55002 |
| 45504 | 18/4 PR | 15 | 0.360 | 116 | 55002 |
| 45506 | 18/6 PR | 10 | 0.460 | 201 | 55004 |
| 45507 | 18/7 PR | 10 | 0.460 | 209 | 55004 |
| 45509 | 18/9 PR | 10 | 0.535 | 295 | 55005 |
| 45602 | 20/2 PR | 12 | 0.262 | 65 | 55003 |
| 45603 | 20/3 PR | 12 | 0.290 | 75 | 55003 |
| 45604 | 20/4 PR | 10 | 0.330 | 96 | 55002 |
| 45606 | 20/6 PR | 7 | 0.380 | 136 | 55002 |
| 45607 | 20/7 PR | 7 | 0.380 | 140 | 55002 |
| 45609 | 20/9 PR | 7 | 0.480 | 230 | 55004 |
| 45702 | 22/2 PR | 9 | 0.225 | 52 | 55001 |
| 45703 | 22/3 PR | 9 | 0.270 | 60 | 55001 |
| 45704 | 22/4 PR | 8 | 0.300 | 76 | 55003 |
| 45706 | 22/6 PR | 6 | 0.340 | 108 | 55003 |
| 45707 | 22/7 PR | 6 | 0.340 | 110 | 55003 |
| 45709 | 22/9 PR | 6 | 0.430 | 145 | 55004 |
| 45802 | 24/2 PR | 7 | 0.215 | 42 | 55001 |
| 45803 | 24/3 PR | 7 | 0.250 | 52 | 55001 |
| 45804 | 24/4 PR | 6 | 0.275 | 62 | 55001 |
| 45806 | 24/6 PR | 5 | 0.326 | 85 | 55003 |
| 45807 | 24/7 PR | 5 | 0.336 | 123 | 55002 |
| 45809 | 24/9 PR | 5 | 0.369 | 150 | 55002 |

**Notes**

**Ampacities are based on an ambient temperature of 40°C and conductor temperature of 200°C per the IEEE Standard 835 Power Cable Ampacity Table.*

***Grip-Seals® Aluminum straight cable gland part number listed. Sizing based on nominal cable O.D. Due to process tolerances, a smaller/larger gland size may be required. Confirm NPT Fitting Size matches application.*