

Control/Instrumentation

Chem-Gard® 250 Shielded Multi-Conductor Cable

Chem-Gard® 250 Multi-Conductor Cable is a high temperature and chemical resistant cable for control and instrumentation applications that can withstand a maximum conductor temperature of 250°C / 482°F. This control and instrumentation cable features a copolymer PFA jacket that provides excellent chemical, abrasion and high heat resistance. Chem-Gard® is approximately 40% smaller in diameter than typical SOOW cable, allowing it to be used in areas with restricted space and in conduit.

Ratings



600V

Max Conductor Temperature 250°C

Cold Temperature Rating -40°C

AWM Style 21589

CSA AWM Class I/II Group A/B

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 PFA Insulation

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

High Temperature Fillers

Will not wick up contaminants into cable. Allow conductors to move freely within the jacket for improved flex-life in dynamic applications.

Heavy-Duty 90% Coverage Nickel-Plated Copper Braid Shield

Nickel-plated copper braid shield with drain wire. Provides 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 PFA 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 ATPC sales representative

Part No.	Configuration AWG/Cond	Ampacity*	Nominal O.D. (in)	W.T. (lbs) Per 1,000 ft.	Standard Cable Gland**
47103	18/3	23	0.215	36	55001
47104	18/4	23	0.217	44	55001
47110	18/12	11	0.331	113	55003
47112	16/2	31	0.220	42	55001
47113	16/3	31	0.224	51	55001
47114	16/4	31	0.244	63	55003
47118	16/8	22	0.335	114	55002
47120	16/12	15	0.378	158	55002
47122	14/4	43	0.283	89	55003
47123	14/8	30	0.398	163	55004
47126	12/4	60	0.327	125	55003
47135	10/4	80	0.421	189	55004



Notes

*Ampacities are based on ambient temperature of 40 degrees C and conductor temperature of 250 degrees C with one ground per 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.