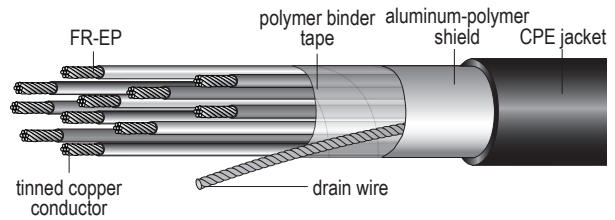


SPECIFICATION
HW109

INSTRUMENTATION CABLE

**600 Volt UL Type TC, 90°C
Multiple Conductor
Overall Shield
FR-EP Insulation & CPE Jacket
Tinned Copper Conductors**



Catalog Number	Size AWG	Number of Conductors	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inches	Net Weight Lbs/Mft
HW109 01802	18	2	25	45	0.30	42
HW109 01803	18	3	25	45	0.31	53
HW109 01602	16	2	25	45	0.32	52
HW109 01603	16	3	25	45	0.34	66
HW109 01604	16	4	25	45	0.37	80

APPLICATION:

Superior flame-retardant cable for use in instrumentation and process control applications in caustic environments where protection from electrostatic interference is required. UL listed as Type TC and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. May be installed at temperatures as low as -35°C and used in NEC Class 1, Division 2 hazardous locations. UL approved for NEC continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

CONDUCTORS:

7-strand tin-coated, soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8

INSULATION:

Flame-retardant ethylene propylene rubber (FR-EP) per ICEA S-82-552

OVERALL SHIELD:

Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire

JACKET:

Sunlight-resistant chlorinated polyethylene (CPE) per ICEA S-82-552 and UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping

FLAME TESTS:

- IEEE 383 (70,000 BTU/hr) Flame Test
- IEEE 1202 (70,000 BTU/hr)
- UL 1277 (70,000 BTU/hr) Flame Test
- ICEA T-29-520 (210,000 BTU/hr) Flame Test
- CSA FT4 Flame Test

COLOR CODE:

- ICEA Method 1, Table E-2
- ICEA Method 1, Table E-1 available upon request

ADDITIONAL STANDARDS:

- NEC Type TC per Articles 336, 392 and 501, and for Class 1 circuits per NEC Article 725
- NEMA WC-55