

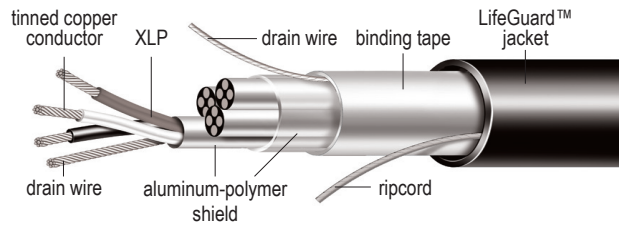
SPECIFICATION
HW121



INSTRUMENTATION & THERMOCOUPLE

INSTRUMENTATION CABLE

**600 Volt UL Type TC-LS, 90°C
Single & Multiple Triads
Individual & Overall Shield
XLP Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors
FM Approved**



Catalog Number	Size AWG	Number of Triads	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inches	Net Weight Lbs/Mft
HW121 1601T	16	1	30	60	0.35	67
HW121 01602	16	2	30	60	0.64	170
HW121 01604	16	4	30	60	0.74	268
HW121 01606	16	6	30	60	0.93	422
HW121 01608	16	8	30	60	0.96	500
HW121 01612	16	12	30	60	1.14	705

APPLICATION:

LifeGuard™ Low Smoke Zero Halogen* cable is for use in instrumentation and process control applications where superior protection from electrostatic interference is required. LifeGuard™ jacket is highly flame-retardant, produces very small amounts of smoke when burned and contains no halogens. LifeGuard™ cable is ideal for applications where a high degree of safety and equipment protection is required.

LifeGuard™ cable is UL listed as Type TC-LS and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. It may be installed in temperatures as low as -30°C and used in NEC Class I, Division 2 hazardous locations. It is UL approved for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

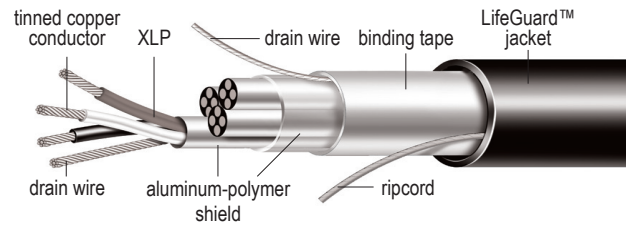
PRODUCT FEATURES:

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Tinned conductors provide ease of termination and added protection in caustic environments
- Superior electrostatic interference protection from individual and Overall shield
- Very low smoke production when burned
- LifeGuard™ jacket produces zero halogens during fire – less toxic and corrosive
- LifeGuard™ jacket is environmentally safe – lead, sulfur and halogen free
- Highly chemical resistant
- Very flame retardant
- Burns to an ash – does not exhibit thermoplastic drip
- Excellent compression and impact resistance
- Superior tensile strength and abrasion resistance
- Flexible jacket with low coefficient of friction



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CONDUCTORS:

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

INSULATION:

Cross-linked polyethylene (XLP) per UL Standard 44

INDIVIDUAL SHIELD:

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

OVERALL SHIELD:

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

JACKET:

Sunlight-resistant and flame-retardant, Low Smoke Zero Halogen polyolefin per UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping.

FLAME TESTS:

- UL Standard 1581 (70,000 BTU/hr) Flame Test
- FM Approved — Class 3972 Specification Test Standard — Cable Fire Propagation Group 1

COLOR CODE:

Triads: black, white and red with printed numbers on one conductor

ADDITIONAL STANDARDS:

- UL Standard 1685
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725

** Some cable insulations may contain trace amounts of halogens.*