

**SPECIFICATION**  
**HW115**



**THERMOCOUPLE EXTENSION  
CABLE: EX, JX, KX, TX**

**600 Volt UL Type TC-LS, 90°C  
Single Pair**

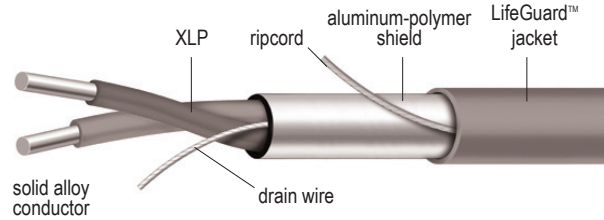
**Overall Shield**

**XLP Insulation**

**Low Smoke Zero Halogen Jacket**

**Solid Alloy Conductors**

**FM Approved**



| Catalog Number | ANSI Type | Size AWG | Number of Pairs | Insulation Thickness Mils | Jacket Thickness Mils | Overall Diameter Inches | Net Weight Lbs/Mft |
|----------------|-----------|----------|-----------------|---------------------------|-----------------------|-------------------------|--------------------|
| HW115 1601E    | EX        | 16       | 1               | 30                        | 45                    | 0.32                    | 57                 |
| HW115 1601J    | JX        | 16       | 1               | 30                        | 45                    | 0.32                    | 57                 |
| HW115 1601K    | KX        | 16       | 1               | 30                        | 45                    | 0.32                    | 57                 |
| HW115 1601T    | TX        | 16       | 1               | 30                        | 45                    | 0.32                    | 57                 |

**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.

**PRODUCT FEATURES:**

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Overall shield provides protection from electrostatic interference
- 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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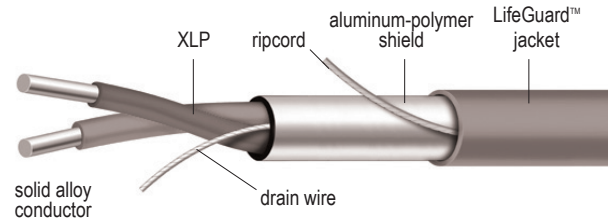
**Overall Shield**

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**INSTRUMENTATION & THERMOCOUPLE**

### **CONDUCTORS:**

Annealed, solid thermocouple extension grade alloys calibrated to standard limits of error per ANSI-MC96.1

### **INSULATION:**

Cross-linked polyethylene (XLP) per UL Standard 44, color-coded per ANSI-MC96.1

### **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

### **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.*