HOUSTON WIRE & CABLE COMPANY

Specification

HW120

Instrumentation Cable

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

FM APPROVED

Catalog Number	Size AWG	Number of Pairs	Insulation Thickness	Jacket Thickness	Overall Diameter Inch	Net Weight Lbs / Mft
HW120 01601	16	1	30	60	0.33	59
HW120 01602	16	2	30	60	0.58	136
HW120 01604	16	4	30	60	0.67	216
HW120 01608	16	8	30	60	0.90	397
HW120 01612	16	12	30	80	1.04	530
HW120 01624	16	24	30	80	1.40	960

Application:
LifeGuard™ Low Smoke Zero Halogen* cable is for use in instrumentation and process control applications where protection from electrostatic interference is required. It 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 NEC 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 1, Division 2 hazardous locations. It is NEC 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:
- FM approved per cable fire propagation Standard 3972, Group 1
- 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

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:

- FM Approved - Class 3972 Specification Test Standard - Cable Fire Propagation Group 1
- UL Standard 1581 70,000 BTU/hr flame test
- ICEA T-29-520 210,000 BTU/hr flame test
- Flame Test Listings May Vary By Cable Size

Color Code:
ICEA Method 9: black and white twisted pairs with numbers

Additional Standards:
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725

- UL Standard 1685 70,000 BTU/hr Flame Propagation and Smoke Release Test

*Some cable insulations may contain trace amounts of halogens.

All data subject to change without notice