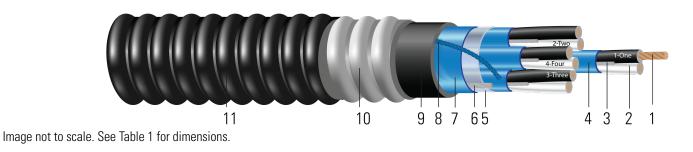
600V CU PVC PAIRS ARMOR-X[®] SOLONON LSZH SPOS Instrumentation

Type MC-HL Instrumentation Cable 600 Volt PVC/Nylon Insulated Singles Shielded Pairs with Overall Shield Continuous Corrugated Armor - ARMOR-X[®] -40°C to 90°C



CONSTRUCTION:

- 1. Conductor: Class B stranded bare copper per ASTM B3 and B8
- 2. **Insulation:** Premium Grade Polyvinyl Chloride (PVC) plus nylon. Color code: Black/White with alpha-numeric print on each pair. 1-ONE, 2-TWO.
- 3. Drain Wire: Tinned copper
- 4. Twisted Shielded Triads: 100% coverage aluminum/polyester foil shield with an individual drain wire shown in step 3
- 5. Binder: Mylar binder
- 6. Overall Drain Wire: Tinned Copper
- 7. Overall Shielded: 100% coverage aluminum/polyester foil shield with a drain wire as shown in step 6
- 8. **Rip Cord:** Rip cord under jacket for ease of removal
- 9. Inner Jacket: Black Polyvinyl Chloride (PVC)
- 10. Armor: ARMOR-X[®] continuous impervious weld corrugated aluminum armor
- 11. Jacket: Black sunlight and moisture resistant Solonon Low Smoke Zero Halogen (LSZH)

APPLICATIONS AND FEATURES:

Southwire's Instrumentation Cables Type MC-HL ARMOR-X[®] per UL 1569 are suitable for installations as outlined in NEC Article 330 for process control and instrumentation, control circuits for operation and interconnection of protective and signaling devices and for general use in manufacturing, industrial and commercial distribution systems. Cables are constructed with 7-strand copper conductors insulated with nylon covered PVC. The paired conductors are colored black, white and alpha-numeric printed. Each pair has an aluminum polyester foil with 100% coverage and a tinned drain wire. The overall assembly is covered with an aluminum polyester foil with 100% coverage and a tinned drain wire. The cable is suited for use in cable trays, raceways, conduit, aerial (when supported with a messenger) and direct burial. The cable is rated for -40°C to 90°C and rated for Class I Div I hazardous locations. The inner jacket is black polyvinyl chloride (PVC) with a nylon rip cord for easy removal. The outer jacket is black Solonon Low Smoke Zero Halogen (LSZH).

SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL 66 Fixture Wire
- UL 83 Thermoplastic Insulated Wires and Cables



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- UL 1569 Metal-Clad Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- UL 2225 Cables and Cable-Fittings For Use In Hazardous (Classified) Locations
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- EPA 40 CFR, Part 26, Subpart C heavy metals per Table 1, TCLP method
- ABS Listed as CWCMC

SAMPLE PRINT LEGEND:

SOUTHWIRE® #P# ARMOR-X[®] TYPE MC-HL (UL) SHLD PR XXAWG OVERALL SHIELDED SOLONON-N CDRS 90°C JKT SUN RES. DIR BUR FOR CT USE IEEE 1202/FT4 -40°C 600V (YR) USA SEQUENTIAL MARKING

Table 1 – Weights and Measurements

Cond. Size	Number of Pairs	Diameter Over Conductor	Insul. Thickness	Diameter Over Armor	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C
AWG/ Kcmil	pair	inch	mil	inch	mil	inch	lb/1000ft	inch	Ω/1000ft
18	8	0.045	20	0.84	50	0.940	363	6.5	6.669

All dimensions are nominal and subject to normal manufacturing tolerances

 \Diamond Cable marked with this symbol is a standard stock item

Table 2 – Weights and Measurements (Metric)

Cond. Size	Number of Pairs	Diameter Over Conductor	Insul. Thickness	Diameter Over Armor	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C
AWG/ Kcmil	pair	inch	mm	mm	mm	mm	lb/km	mm	Ω/km
18	8	0.045	0.51	21.34	1.27	23.88	540	165.10	21.88

Typical Electrical Specifications for Each Pair

Size	Capacitance	Inductance
18	40.66	0.0957
16	48.51	0.0895



