

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-x -40°C to 90°C

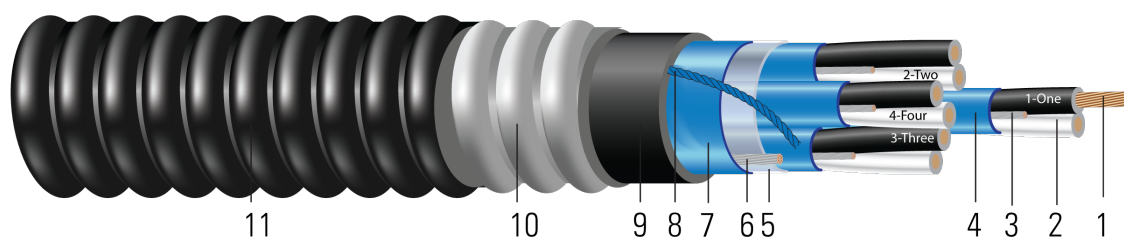


Image not to scale. See Table 1 for dimensions.

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 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 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
- UL 1569 Metal-Clad Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)



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Southwire

**CABLETECH
SUPPORT™**

Services

- 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 CWC MC

SAMPLE PRINT LEGEND:

SOUTHWIRE® #P# ARMOR-XTRA 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

Tabla 1-pesos y medidas

Número de Stock	Tamaño de Cond.	Número de pares	Insul. Espesor	Espesor de la cubierta	Aprox. OD	Peso Aprox.	radio de flexión	Resistencia @ 25° C
	AWG/Kcmil	emparejar	mil	mil	pulg	lb/1000ft	pulg	Ω/1000ft
TBA	18	2	20	60	0.71	207	4.97	6.66
TBA	18	4	20	60	0.8	260	6.02	6.66
TBA	18	8	20	60	1.01	455	7.07	6.66
TBA	18	12	20	60	1.11	593	7.77	6.66
TBA	18	16	20	60	1.32	766	9.24	6.66
575916	16	1	20	60	0.63	166	4.41	4.18
TBA	16	2	20	60	0.75	237	5.25	4.18
TBA	16	4	20	60	0.94	366	6.58	4.18
TBA	16	8	20	60	1.11	541	7.77	4.18
TBA	16	12	20	60	1.32	798	9.24	4.18
TBA	16	16	20	60	1.4	964	9.8	4.18
TBA	16	24	20	60	1.66	1436	11.62	4.18
TBA	16	36	20	60	1.88	1901	13.16	4.18

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item



Table 2 – Weights and Measurements (Metric)

Número de Stock	Tamaño de Cond. AWG/Kcmil	Número de pares emparejar	Insul. Espesor mm	Espesor de la cubierta mm	Aprox. OD mm	Peso Aprox. lb/km	radio de flexión mm	Resistencia @ 25° C Ω/km
TBA	18	2	0,51	1,52	18,03	308	126,24	21,85
TBA	18	4	0,51	1,52	20,32	387	152,91	21,85
TBA	18	8	0,51	1,52	25,65	677	179,58	21,85
TBA	18	12	0,51	1,52	28,19	882	197,36	21,85
TBA	18	16	0,51	1,52	33,53	1140	234,70	21,85
575916	16	1	0,51	1,52	16,00	247	112,01	13,71
TBA	16	2	0,51	1,52	19,05	353	133,35	13,71
TBA	16	4	0,51	1,52	23,88	545	167,13	13,71
TBA	16	8	0,51	1,52	28,19	805	197,36	13,71
TBA	16	12	0,51	1,52	33,53	1188	234,70	13,71
TBA	16	16	0,51	1,52	35,56	1435	248,92	13,71
TBA	16	24	0,51	1,52	42,16	2137	295,15	13,71
TBA	16	36	0,51	1,52	47,75	2829	334,26	13,71

Typical Electrical Specifications for Each Pair

Size AWG	Capacitance pF/ft	Inductance μH/ft
18	40.66	0.0957
16	48.51	0.0895

