

# CSA INSTRUMENTATION

## ARMOURED INSTRUMENTATION, PAIRS & TRIADS

### CSA Instrumentation

Armoured Instrumentation cables can be used to minimize noise and signal interference by preventing crosstalk between pairs and triads. This cable can also be used to convert analogue or digital signals. Tray Instrumentation cables can be installed in raceways, direct burial applications and in outdoor exposed industrial applications.



### Approvals

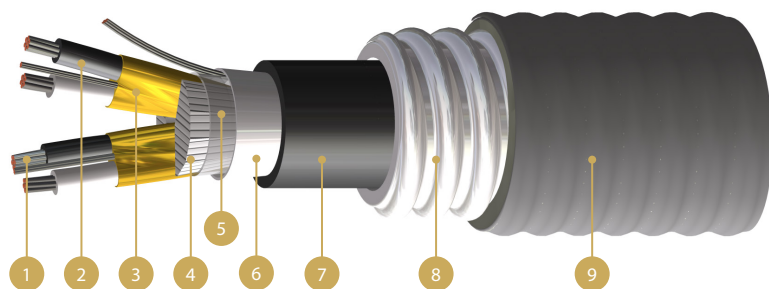
- CSA C22.2 NO. 239, Control & Instrumentation Cables
- CSA C22.2 NO. 174, Cables & Cable Glands for use in Hazardous Locations
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test Rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (RW90) rated, 90°C wet/ 105°C dry
- Direct Burial rated
- UV sunlight resistant "SUN RES" (all colours)
- -40°C cold bend/impact rated
- HL rated for use in hazardous locations:
  - Class 1 Zone 0 (Intrinsically Safe cables only)
  - Class 1 Zone 1 (Div 1)
  - Class 1 Zone 2 (Div 2)
  - HL-BCD gas groups rated

### Product Sizing

- Voltage Rating:
  - 300, 600 & 1000V
- Instrumentation:
  - 22, 20, 18, 16 AWG / 1 to 50 pairs / 1 to 36 triads (standard)
  - 14, 12, and 10 AWG (available)

### Colour Coding

- Pairs:
  - Black & white, with black printing on white (standard)
- Triads:
  - Black, white and red, with black printing on white (standard)



1. Stranded Bare Copper Conductors (Tinned Available)
2. XLPE (RW90 rated) Insulated Conductors
3. Individual Shielded & Overall Shielded Pairs/Triads
4. Polypropylene Fillers
5. Polyester Separator Tape
6. Overall Aluminum/Mylar Shielded with Tinned Copper Drain Wire
7. FR LAG PVC Inner Protective Jacket
8. Aluminum Interlocked Armour (AIA) (standard)
9. FR LAG PVC Outer Protective Jacket

### Product Construction

- Insulation:
  - FR XLPE/XLPE (RW90 rated) (standard) rated: 90°C wet/ 105°C dry
  - PVC (optional)
- Shielding (foil-free edge):
  - ISOS (standard)
  - OS (optional)
- Armour:
  - Aluminum Interlocked Armour (AIA) (standard)
  - Steel Interlocked Armour (SIA) (optional)
  - Served Wired Armour (SWA) (optional)
- Jacket:
  - FR LAG PVC (AG14 rated) inner black jacket rated: 90°C to -40°C
  - FR LAG PVC (AG14 rated) outer grey jacket rated: 90°C to -40°C
  - LSZH CSA FT4-ST1 (optional)
- Available in:
  - Copper tape or braided shield
  - Custom colour coding
  - Custom insulation/jacket colours
  - Composite constructions
  - Thermocouple conductors

### Head Office

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