

UL Type MC Armored Instrumentation, 600 V

Metal Clad Armored 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 convey analog or digital signals.

Standards:



Product Construction

Insulation:

- FR XLPE (XHHW-2 rated) rated: 90°C wet/dry
- VW-1 rated (optional)

Armor:

- Aluminum Interlocked Armor (AIA) (standard)
- Steel Interlocked Armor (SIA) (optional)

Jacket:

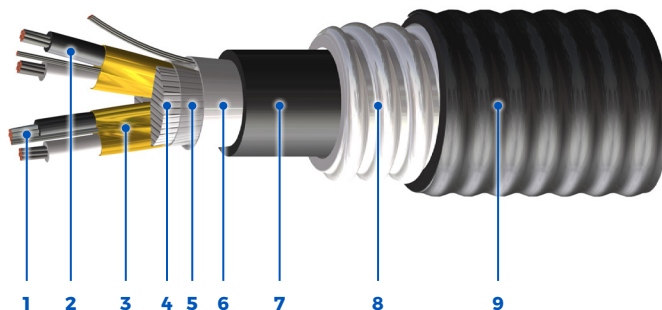
- FR PVC outer black jacket rated: 90°C to -40°C
- Thermoset CPE (optional)
- Thermoplastic CPE (optional)
- Thermoplastic LSZH (optional)

Available in:

- Custom insulation/jacket colors
- Composite constructions

Certification/Compliances

- UL 1569, Metal Clad Cables (MC)
- UL 44, Thermoset Insulated Wires and Cables
- UL 1685/FT4, Vertical Tray Flame Test rated (optional)
- IEEE 1202/383 (70,000 BTU/hr), Vertical Flame Test rated (optional)
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (XHHW-2 rated), 90°C wet/dry
- UV sunlight resistant "SUN RES" (all colors) (for CT use)
- Direct burial rated
- -40°C cold bend rated
- Rated for use in hazardous locations:
 - Class I Zone 2 (Div 2)
 - Class II Zone 22 (Div 2)



- 1 – Stranded Bare Copper Conductors (Tin-coated Available)
- 2 – FR XLPE (XHHW-2 Rated) Insulated Conductors
- 3 – Individual Shield & Overall Shielded Pairs/Triads
- 4 – Polypropylene Fillers
- 5 – Polyester Separator Tape

- 6 – Overall Aluminum/Mylar Shield with Tin-coated Copper Drain Wire
- 7 – FR PVC Inner Protective Jacket
- 8 – Aluminum Interlocked Armor (AIA)
- 9 – FR PVC Outer Protective Jacket

600 V Voltage

UL Type MC Instrumentation

Color Coding

- Black conductors (standard)
- Method K1 or K2 (optional)
- Method 4 (optional)

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Pairs

PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE	OD OVER JACKET	NORMAL DIAMETERS		CABLE WEIGHT	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER ARMOR	OVERALL CABLE			
		(AWG/kcmil)	(in/mm)	(in/mm)	(in/mm)	(lbs/1000ft) (kg/km)	(lb/kg)	(in/mm)
2C621U160100300	1	16	0.337 / 8.6	0.577 / 14.7	0.689 / 17.5	194 / 288	41 / 19	12.4 / 315
2C622U160200300	2	16	0.504 / 12.8	0.744 / 18.9	0.856 / 21.8	300 / 446	82 / 37	15.4 / 392
2C622U160400300	4	16	0.627 / 15.9	0.866 / 22.0	0.978 / 24.9	401 / 597	165 / 75	17.6 / 447
2C622U160600300	6	16	0.736 / 18.7	0.976 / 24.8	1.088 / 27.6	511 / 761	247 / 112	19.6 / 498
2C622U160800300	8	16	0.865 / 22.0	1.069 / 27.2	1.181 / 30.0	612 / 911	330 / 150	21.3 / 540
2C622U161200300	12	16	0.982 / 24.9	1.186 / 30.1	1.298 / 33.0	783 / 1166	494 / 224	23.4 / 593
2C622U161600300	16	16	1.100 / 27.9	1.304 / 33.1	1.416 / 36.0	946 / 1408	659 / 299	25.5 / 647
2C622U162400300	24	16	1.378 / 35.0	1.582 / 40.2	1.714 / 43.6	1342 / 1997	989 / 449	30.9 / 784
2C622U163600300	36	16	1.597 / 40.6	1.801 / 45.8	1.933 / 49.1	1800 / 2679	1483 / 673	34.8 / 884
2C621U180100300	1	18	0.313 / 8.0	0.553 / 14.1	0.665 / 16.9	176 / 261	26 / 12	12 / 304
2C622U180200300	2	18	0.465 / 11.8	0.705 / 17.9	0.817 / 20.7	263 / 392	52 / 24	14.7 / 373
2C622U180400300	4	18	0.577 / 14.7	0.817 / 20.8	0.929 / 23.6	343 / 511	104 / 47	16.7 / 425
2C622U180600300	6	18	0.676 / 17.2	0.916 / 23.3	1.028 / 26.1	428 / 638	156 / 71	18.5 / 470
2C622U180800300	8	18	0.792 / 20.1	0.996 / 25.3	1.108 / 28.1	505 / 752	208 / 94	19.9 / 507
2C622U181200300	12	18	0.897 / 22.8	1.101 / 28.0	1.213 / 30.8	631 / 939	312 / 142	21.8 / 555
2C622U181800300	18	18	1.062 / 27.0	1.266 / 32.2	1.378 / 35.0	821 / 1222	468 / 212	24.8 / 630
2C622U182400300	24	18	1.255 / 31.9	1.459 / 37.1	1.571 / 39.9	1024 / 1525	624 / 283	28.3 / 718
2C622U183600300	36	18	1.452 / 36.9	1.656 / 42.1	1.788 / 45.4	1387 / 2064	936 / 425	32.2 / 818

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Triads

PART NUMBER	NUMBER OF TRIADS	CONDUCTOR SIZE	OD OVER JACKET	NORMAL DIAMETERS		CABLE WEIGHT	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER ARMOR	OVERALL CABLE			
		(AWG/kcmil)	(in/mm)	(in/mm)	(in/mm)	(lbs/1000ft) (kg/km)	(lb/kg)	(in/mm)
2C631U160100300	1	16	0.355 / 9.0	0.595 / 15.1	0.707 / 18.0	212 / 316	62 / 28	12.7 / 323
2C632U160200300	2	16	0.595 / 15.1	0.835 / 21.2	0.947 / 24.1	369 / 549	124 / 56	17 / 433
2C632U160400300	4	16	0.715 / 18.2	0.955 / 24.3	1.067 / 27.1	483 / 719	247 / 112	19.2 / 488
2C632U160600300	6	16	0.843 / 21.4	1.047 / 26.6	1.159 / 29.4	620 / 923	371 / 168	20.9 / 530
2C632U160800300	8	16	0.993 / 25.2	1.197 / 30.4	1.309 / 33.3	761 / 1132	494 / 224	23.6 / 599
2C632U161200300	12	16	1.128 / 28.7	1.332 / 33.8	1.444 / 36.7	989 / 1471	742 / 336	26 / 660
2C632U161600300	16	16	1.266 / 32.2	1.470 / 37.4	1.582 / 40.2	1207 / 1796	989 / 449	28.5 / 723
2C632U162400300	24	16	1.591 / 40.4	1.795 / 45.6	1.927 / 49.0	1727 / 2570	1483 / 673	34.7 / 881
2C631U180100300	1	18	0.329 / 8.4	0.569 / 14.5	0.681 / 17.3	189 / 282	39 / 18	12.3 / 311
2C632U180200300	2	18	0.548 / 13.9	0.788 / 20.1	0.900 / 22.9	322 / 479	78 / 35	16.2 / 412
2C632U180400300	4	18	0.656 / 16.7	0.896 / 22.8	1.008 / 25.6	409 / 609	156 / 71	18.1 / 461
2C632U180600300	6	18	0.771 / 19.6	0.991 / 25.2	1.103 / 28.0	516 / 768	234 / 106	19.9 / 504
2C632U180800300	8	18	0.907 / 23.0	1.111 / 28.2	1.222 / 31.1	622 / 925	312 / 142	22 / 559
2C632U181200300	12	18	1.029 / 26.1	1.233 / 31.3	1.345 / 34.2	796 / 1185	468 / 212	24.2 / 615
2C632U181800300	18	18	1.221 / 31.0	1.425 / 36.2	1.537 / 39.0	1046 / 1557	702 / 318	27.7 / 703
2C632U182400300	24	18	1.446 / 36.7	1.649 / 41.9	1.781 / 45.3	1352 / 2011	936 / 425	32.1 / 814