

- ▶ UL Listed Under Standard 13
- ▶ Complies With NEC Article 725 — Type PLTC, NEC300 and NEC340
- ▶ ULVW-1 — 300 Volt Rated Cables Pass UL Vertical Flame Test
- ▶ CSA Certified — 300 Volt
- ▶ IEEE383 — Both 300 Volt PLTC and 600 Volt Tray Cables Pass the 70,000 BTU — Vertical Tray Flame Test

American manufacturers are automating to meet world-wide competition. However, the vital functions of measurement and control of manufacturing and process operations is dependent on the electronic circuitry and instrumentation cable used in these control networks. Alpha's instrumentation cable provides you with minimal interference and maximum durability in full compliance with all industry standards.

105°C 300 V PVC

- ▶ Stranded Bare Copper Conductors
- ▶ Extruded PVC Insulation
- ▶ Paired Construction Color-Coded — One Black, One White; Triple Constructions Color-Coded Black, White and Red
- ▶ All Pairs and Triples Twisted To Minimize Magnetic Noise
- ▶ White Conductor (Multi-Pairs and Multi-Triples) Printed with a Pair or Triple Number at 1" (25.4 mm) Intervals for Easy Identification
- ▶ When Shielded, Aluminum Polyester Shield Tape and Tinned Copper Drain Wire Provided for Maximum Electrostatic Noise and Cross Talk Rejection
- ▶ Extruded Black PVC Jacket Meets 70,000 BTU Flame Test
- ▶ Temperature Range: -20°C to +105°C (UL) Static Conditions
- ▶ Voltage Rating: 300 Volts (UL)
- ▶ An Economical, General Purpose, Flame Retardant Construction with Excellent Chemical and Abrasion Resistance
- ▶ UL Listed Under Standard 13
- ▶ Complies With NEC Article 725, Type PLTC
- ▶ Available in Long Continuous Lengths

Single Pair Shielded (Fig. A)

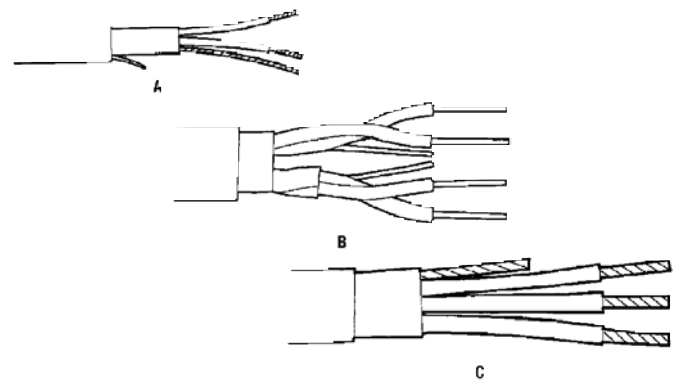
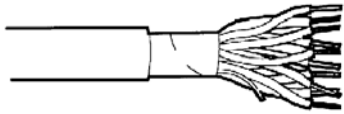
Stock No.	Mfr.'s Type	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
				In.	mm	In.	mm	In.	mm	
708-1350	5610B2201	22	7/30	0.013	0.33	0.035	0.89	0.191	4.85	133.53
708-8172	5610B2001	20	7/28	0.013	0.33	0.035	0.89	0.207	5.26	129.82
708-1352	5610B1801	18	7/26	0.016	0.41	0.035	0.89	0.239	6.07	159.49
708Q1353	5610B1601	16	7/0192	0.016	0.41	0.035	0.89	0.257	6.53	218.84
708Q1354	5610B1401	14	19/0147	0.020	0.51	0.040	1.02	0.309	7.85	426.55
708Q1355	5610B1201	12	19/0185	0.020	0.51	0.040	1.02	0.347	8.81	708.44

Multi-Pair Overall Shielded

Stock No.	Mfr.'s Type	No. of Pairs	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
					In.	mm	In.	mm	In.	mm	
708Q8175	5610B2002	2	20	7/30	0.013	0.33	0.040	1.02	0.31	7.1	306.00
708Q1356	5610B2004	4	20	7/28	0.013	0.33	0.050	1.27	0.38	9.6	499.80
708Q1357	5610B2008	8	20	7/28	0.013	0.33	0.050	1.27	0.47	11.9	765.00
708Q1358	5610B2016	16	20	7/28	0.013	0.33	0.060	1.52	0.63	16.0	1509.60
708Q1359	5610B2020	20	20	7/28	0.013	0.33	0.060	1.52	0.66	17.3	2021.45
708Q8181	5610B1802	2	18	7/26	0.016	0.41	0.040	1.02	0.37	8.4	459.00
708Q1361	5610B1804	4	18	7/26	0.016	0.41	0.050	1.27	0.45	11.2	561.40
708Q1362	5610B1808	8	18	7/26	0.016	0.41	0.050	1.27	0.56	14.2	1020.00
708Q1363	5610B1820	20	18	7/26	0.016	0.41	0.060	1.52	0.82	20.8	3060.00
708Q1364	5610B1602	2	16	7/0192	0.016	0.41	0.050	1.27	0.43	10.9	652.80
708Q1365	5610B1608	8	16	7/0192	0.016	0.41	0.060	1.52	0.64	16.2	1887.00

90°C 600 V PVC/Nylon

- ▶ Standard Bare Copper Conductors
- ▶ Extruded PVC Insulation with Nylon
- ▶ Paired Constructions Color-Coded — One Black, One White; Triple Constructions Color-Coded Black, White and Red
- ▶ All Pairs and Triples Twisted To Minimize Magnetic Noise
- ▶ Each Conductor (Multi-pairs and Multi-triples) Printed with a Pair or Triple Number at 1" (25.4 mm) Intervals for Easy Identification; Numbers Are Printed Alternately and Inverted
- ▶ Nylon Jacketing of Each Conductor Provides Increased Dielectric Strength
- ▶ When Shielded, Aluminum Polyester Shield Tape and Tinned Copper Drain Wire Provided for Maximum Electrostatic Noise and Cross Talk Rejection
- ▶ Nylon Rip Cord Under Jacket to Simplify Stripping
- ▶ Extruded Black PVC Jacket Exceeds Test Criteria Established By Underwriters Laboratories Tray Fire Test, Based On IEEE Standard 383, 70,000 BTU Flame Test
- ▶ Temperature Range: -20°C to +90°C (UL +90°C) — Static Conditions
- ▶ Voltage Rating: 600 Volts (UL)
- ▶ PVC/Nylon Construction Results in a 600 Volt Small Diameter Cable that Saves Space
- ▶ Nylon Permits a Slipping Action Between Conductors that Relieves Stresses Developed When Cable Is Flexed
- ▶ Listed as Tray Cable Under UL Standard 1277 and NEC Article 340 (Article 725 Class 1)
- ▶ Available in Long Continuous Lengths
- ▶ Commonly Utilized For In-Plant Process Control



Multi-Pair Individually and Overall Shielded (Fig. B)

Stock No.	Mfr.'s Type	No. of Pairs	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
					In.	mm	In.	mm	In.	mm	
708Q1366	5620B2002	2	20	7/28	0.013	0.33	0.040	1.02	0.36	9.2	408.00
708Q1367	5620B2004	4	20	7/28	0.013	0.33	0.050	1.27	0.40	10.2	608.29
708Q1368	5620B2008	8	20	7/28	0.013	0.33	0.050	1.27	0.51	13.0	1073.78
708Q1369	5620B2012	12	20	7/28	0.013	0.33	0.060	1.52	0.61	15.5	1557.82
708Q1370	5620B2016	16	20	7/28	0.013	0.33	0.060	1.52	0.68	17.3	2132.73
708Q1371	5620B2020	20	20	7/28	0.013	0.33	0.060	1.52	0.74	18.8	2837.45
708Q1372	5620B1804	4	18	7/26	0.016	0.41	0.050	1.27	0.46	11.7	834.55
708Q1373	5620B1808	8	18	7/26	0.016	0.41	0.060	1.52	0.62	15.7	1706.18
708Q1374	5620B1812	12	18	7/26	0.016	0.41	0.060	1.52	0.73	18.5	2494.36
708Q1375	5620B1820	20	18	7/26	0.016	0.41	0.070	1.79	0.91	23.1	4172.73
708Q1376	5620B1824	24	18	7/26	0.016	0.41	0.070	1.79	0.98	24.9	5100.00
708Q1377	5620B1602	2	16	7/0192	0.016	0.41	0.050	1.02	0.40	10.2	732.55
708Q1378	5620B1604	4	16	7/0192	0.016	0.41	0.050	1.02	0.51	13.0	1268.51
708Q1379	5620B1612	12	16	7/0192	0.016	0.41	0.070	1.79	0.82	20.8	3579.27

Single Triad Shielded (Fig. C)

Stock No.	Mfr.'s Type	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
				In.	mm	In.	mm	In.	mm	
708Q1380	5640B2201	22	7/30	0.013	0.33	0.035	0.89	0.200	5.08	194.73
708Q1381	5640B1801	18	7/26	0.016	0.41	0.035	0.89	0.250	6.35	370.91
708Q1382	5640B1601	16	7/0192	0.016	0.41	0.040	1.01	0.270	6.85	463.64

Multi-Triad Individual and Overall Shielded

Stock No.	Mfr.'s Type	No. of Trip.	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
					In.	mm	In.	mm	In.	mm	
708Q1383	5650B2008	8	20	7/28	0.013	0.33	0.050	1.27	0.57	15.0	1798.91

Single Triad Shielded

Stock No.	Mfr.'s Type	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
				In.	mm	In.	mm	In.	mm	
708Q1386	5646B1601	16	7/0192	0.021	0.53	0.045	1.14	0.310	7.90	506.29

Single Pair Shielded

Stock No.	Mfr.'s Type	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
				In.	mm	In.	mm	In.	mm	
708Q1384	5616B1801	18	7/26	0.021	0.53	0.045	1.14	0.280	7.10	224.40
708Q1385	5616B1601	16	7/0192	0.021	0.53	0.045	1.14	0.300	7.60	252.22

Multipair Overall Shielded

Stock No.	Mfr.'s Type	No. of Pairs	AWG	No. of Strands	Nom. Ins. Thickness		Nom. Jacket Thickness		Nom. O.D.		PER SPOOL 1000'
					In.	mm	In.	mm	In.	mm	
708Q1388	5616B1812	12	18	7/26	0.021	0.53	0.060	1.52	0.74	18.8	2151.27
708Q1389	5616B1602	2	16	7/0192	0.021	0.53	0.045	1.14	0.46	11.7	582.33
708Q1390	5616B1608	8	16	7/0192	0.021	0.53	0.060	1.52	0.69	17.5	1836.00
708Q1393	5616B1401	1	14	19/0148	0.021	0.53	0.045	1.14	0.32	8.3	511.85
708Q1394	5616B1201	1	12	19/0185	0.021	0.53	0.045	1.14	0.36	9.2	741.82