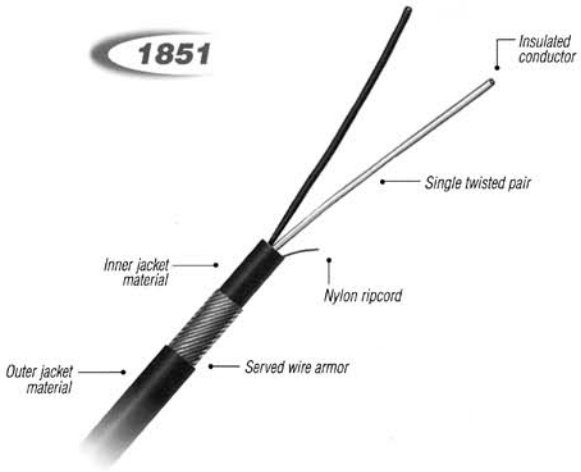
300 Volt Thermoplastic PVC (Single Pair – Served Wire Armor)



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation. . . . . 15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 2
- Color code . . . . . Black and white
- Shield . . . . . (Type 1853) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor. . . . . Multiple strands of served galvanized steel wire (SWA)

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- Served wire armor offers cut-through resistance and is suitable for vertical drops
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

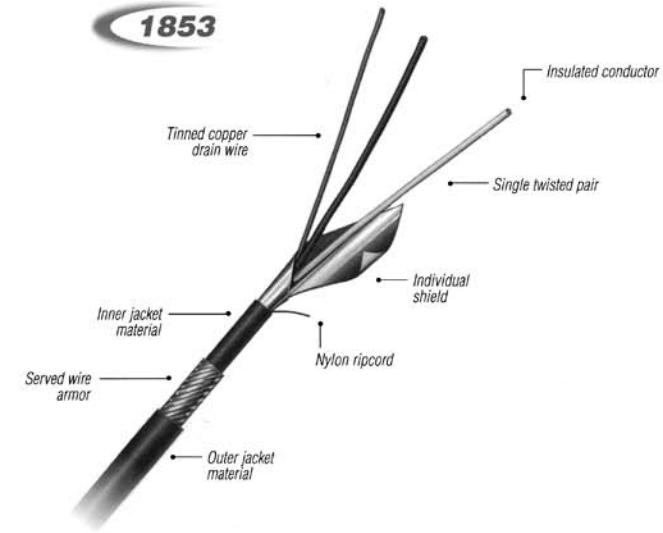
Cable Type

- 1851 – Single pair unshielded
- 1853 – Single pair shielded

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.



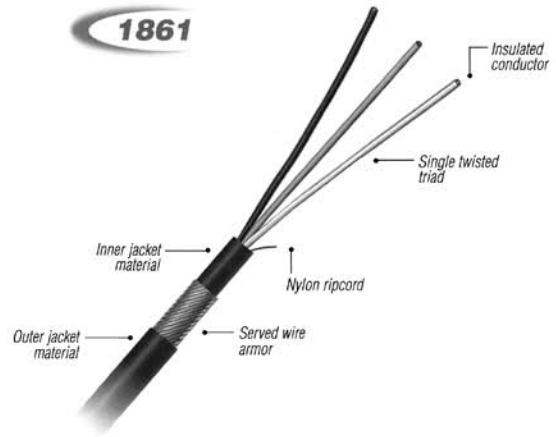
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1851	pF/ft	pF/m	31	100	36	119	37	122
Type 1853	pF/ft	pF/m	49	160	64	210	67	218
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

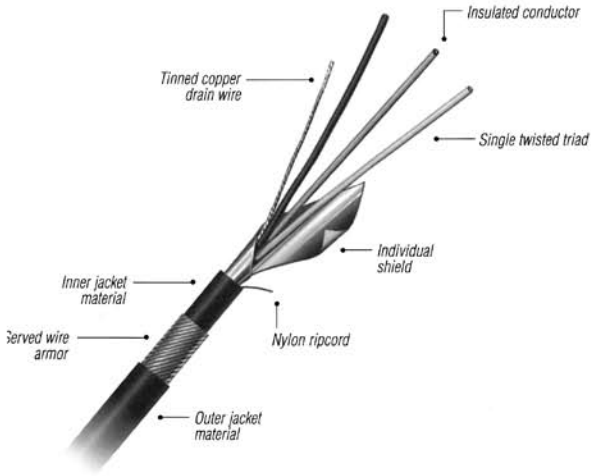
Part Number	Pairs	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor Size: 20 AWG / 0.5 mm²									
1851-086RR	1	0.231	5.9	0.347	8.8	0.095	0.142	35	0.89
1853-086RR	1	0.236	6.0	0.352	8.9	0.100	0.150	35	0.89
Conductor Size: 16 AWG / 1.3 mm²									
1851-686RR	1	0.274	7.0	0.390	9.9	0.121	0.181	35	0.89
1853-686RR	1	0.278	7.1	0.394	10.0	0.130	0.195	35	0.89
Conductor Size: 1.5 mm²									
1851-N86RR	1	0.282	7.2	0.398	10.1	0.126	0.189	35	0.89
1853-N86RR	1	0.286	7.3	0.402	10.2	0.135	0.203	35	0.89

300 Volt Thermoplastic PVC (Single Triad – Served Wire Armor)

1861



1863



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation. . . . . 15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 3
- Color code . . . . . Black, white and red
- Shield . . . . . (Type 1863) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor. . . . . Multiple strands of served galvanized steel wire (SWA)

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- Served wire armor offers cut-through resistance and is suitable for vertical drops
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1861 – Single triad unshielded
- 1863 – Single triad shielded

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

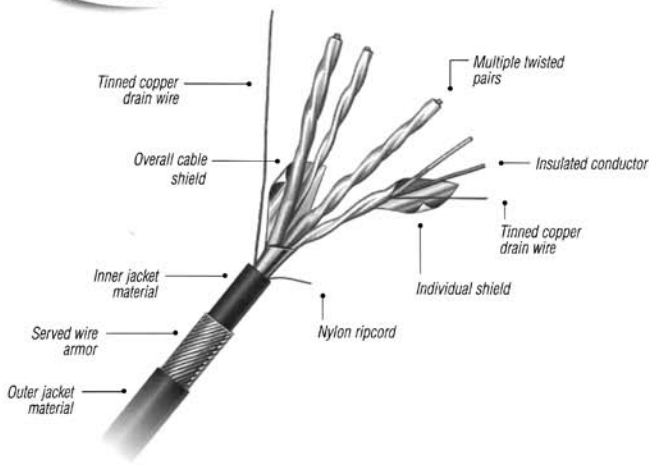
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1861	pF/ft	pF/m	31	100	36	119	37	122
Type 1863	pF/ft	pF/m	49	160	64	210	67	218
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

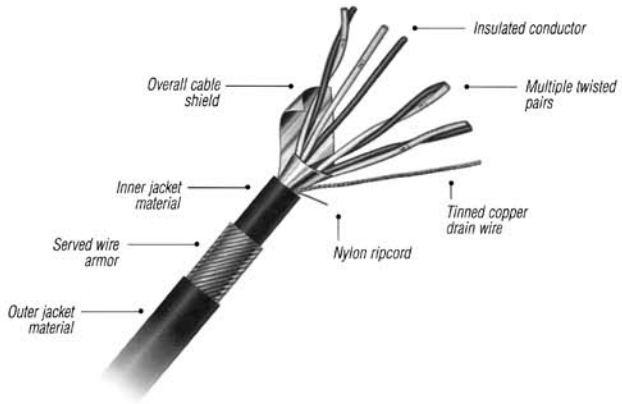
Part Number	Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor Size: 20 AWG / 0.5 mm²									
1861-086RR	1	0.242	6.2	0.358	9.1	0.100	0.149	35	0.89
1863-086RR	1	0.253	6.4	0.369	9.4	0.109	0.163	35	0.89
Conductor Size: 16 AWG / 1.3 mm²									
1861-686RR	1	0.288	7.3	0.404	10.3	0.133	0.199	35	0.89
1863-686RR	1	0.312	7.9	0.428	10.9	0.147	0.220	35	0.89
Conductor Size: 1.5 mm²									
1861-N86RR	1	0.307	7.8	0.423	10.7	0.139	0.207	35	0.89
1863-N86RR	1	0.321	8.2	0.437	11.1	0.162	0.243	35	0.89

300 Volt Thermoplastic PVC (Multiple Pair – Served Wire Armor)

1872



1875



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . 15 mils (0.4 mm) 105˚C FR-PVC
- Number of conductors per group 2
- Color code . . . . . Black and white
- Pair shield . . . . . (Type 1872) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. . . . . (Type 1872/1875) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket. . . . . Black FR-PVC
- Armor. . . . . Multiple strands of served galvanized steel wire (SWA)

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- Served wire armor offers cut-through resistance and is suitable for vertical drops
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1872 – Multiple pair individual and overall shield
- 1875 – Multiple pair overall shield

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

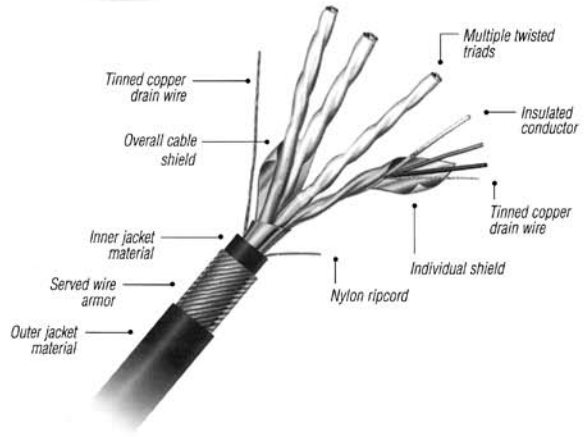
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1872	pF/ft	pF/m	49	160	64	210	67	218
Type 1875	pF/ft	pF/m	31	100	36	119	37	122
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

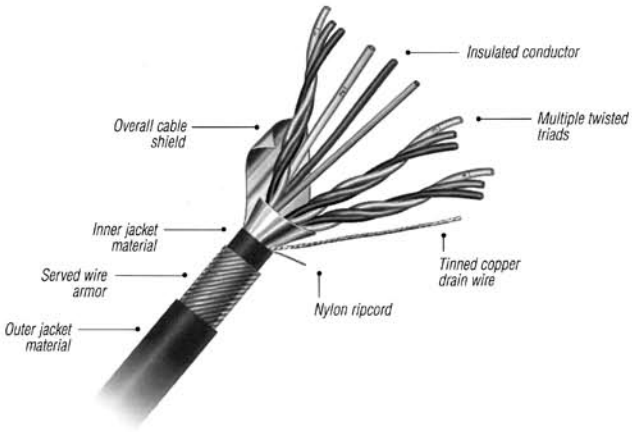
Part Number	Pairs	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1872-00480	4	0.457	11.6	0.607	15.4	0.294	0.440	40	1.02
1872-00880	8	0.575	14.6	0.771	19.6	0.466	0.699	50	1.27
1872-01280	12	0.708	18.0	0.934	23.7	0.750	1.125	50	1.65
1872-01680	16	0.781	19.8	1.027	26.1	0.848	1.271	60	1.52
1872-02480	24	0.972	24.7	1.218	30.9	1.086	1.628	60	1.52
1872-03680	36	1.105	28.1	1.371	34.8	1.407	2.109	70	1.78
1875-00480	4	0.396	10.1	0.566	14.4	0.261	0.389	50	1.27
1875-00880	8	0.523	13.3	0.719	18.3	0.342	0.509	50	1.27
1875-01280	12	0.606	15.4	0.822	20.9	0.421	0.626	60	1.52
1875-01680	16	0.696	17.7	0.942	23.9	0.619	0.921	60	1.52
1875-02480	24	0.813	20.6	1.079	27.4	0.770	1.145	70	1.78
1875-03680	36	0.951	24.2	1.217	30.9	1.148	1.708	70	1.78
Conductor size: 16 AWG / 1.3 mm²									
1872-60480	4	0.553	14.0	0.749	19.0	0.464	0.695	50	1.27
1872-60880	8	0.727	18.5	0.973	24.7	0.824	1.235	60	1.52
1872-61280	12	0.873	22.2	1.119	28.4	1.061	1.592	60	1.52
1872-61680	16	0.988	25.1	1.234	31.3	1.292	1.938	60	1.52
1872-62480	24	1.211	30.8	1.477	37.5	1.713	2.569	70	1.78
1872-63680	36	1.404	35.7	1.690	42.9	2.267	3.400	80	2.03
1875-60480	4	0.514	13.1	0.712	18.1	0.425	0.637	50	1.27
1875-60880	8	0.663	16.8	0.879	22.3	0.647	0.970	60	1.52
1875-61280	12	0.772	19.6	1.018	25.9	0.917	1.374	60	1.52
1875-61680	16	0.863	21.9	1.109	28.2	1.070	1.605	60	1.52
1875-62480	24	1.038	26.4	1.304	33.1	1.421	2.131	70	1.78
1875-63680	36	1.192	30.3	1.458	37.0	1.820	2.729	70	2.03
Conductor size: 1.5 mm²									
1872-N0480	4	0.571	14.5	0.767	19.5	0.483	0.724	50	1.27
1872-N0880	8	0.751	19.1	0.997	25.3	0.862	1.293	60	1.52
1872-N1280	12	0.904	23.0	1.150	29.2	1.113	1.669	60	1.52
1872-N1680	16	1.023	26.0	1.289	32.7	1.357	2.035	70	1.78
1872-N2480	24	1.255	31.9	1.521	38.6	1.793	2.689	70	1.78
1872-N3680	36	1.456	37.0	1.742	44.2	2.399	3.598	80	2.03
1875-N0480	4	0.533	13.5	0.729	18.5	0.443	0.665	50	1.27
1875-N0880	8	0.686	17.4	0.932	23.7	0.765	1.147	60	1.52
1875-N1280	12	0.800	20.3	1.046	26.6	0.961	1.442	60	1.52
1875-N1680	16	0.894	22.7	1.160	29.5	1.126	1.689	70	1.78
1875-N2480	24	1.076	27.3	1.342	34.1	1.502	2.252	70	1.78
1875-N3680	36	1.237	31.4	1.503	38.2	1.936	2.903	70	1.78

300 Volt Thermoplastic PVC (Multiple Triad – Served Wire Armor)

1882



1885



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation. . . . . 15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 3
- Color code . . . . . Black, white and red
- Group identification . . . . . Each triad numbered
- Pair shield . . . . . (Type 1882) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. . . . . (Type 1882/1885) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor . . . . . Multiple strands of served galvanized steel wire (SWA)

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- Served wire armor offers cut-through resistance and is suitable for vertical drops
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1882 – Multiple triad individual and overall shield
- 1885 – Multiple triad overall shield

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials

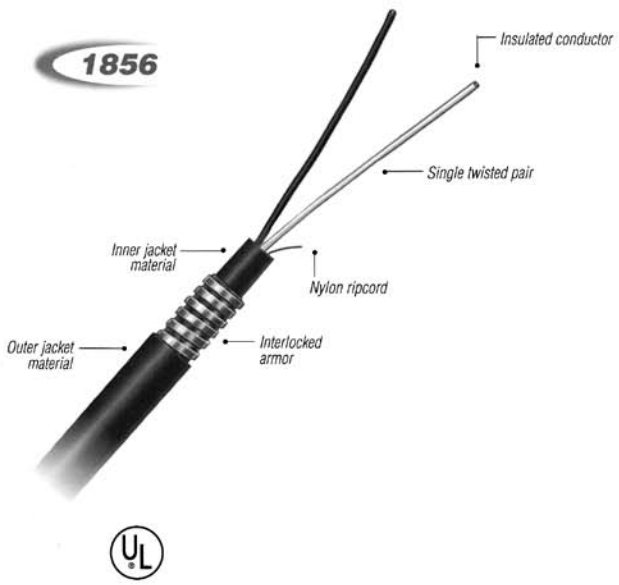
The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

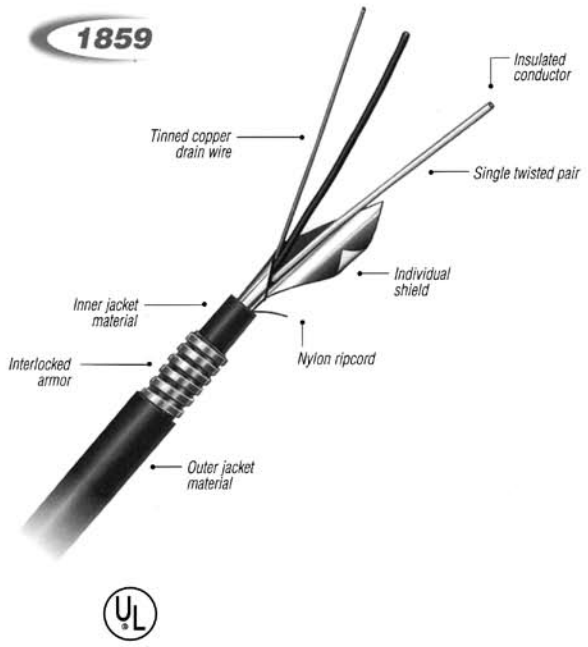
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1882	pF/ft	pF/m	49	160	64	210	67	218
Type 1885	pF/ft	pF/m	31	100	36	119	37	122
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

Part Number	Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1882-00480	4	0.497	12.6	0.667	16.9	0.334	0.500	50	1.27
1882-01280	12	0.777	19.7	1.023	26.0	0.857	1.286	60	1.52
1882-01680	16	0.859	21.8	1.105	28.1	0.995	1.493	60	1.52
1885-00480	4	0.470	11.9	0.640	16.3	0.311	0.463	50	1.27
1885-01280	12	0.732	18.6	0.978	24.8	0.690	1.026	60	1.52
1885-01680	16	0.808	20.5	1.054	26.8	0.799	1.188	60	1.52
Conductor size: 16 AWG / 1.3 mm²									
1882-60480	4	0.605	15.4	0.801	20.3	0.540	0.810	50	1.27
1882-61280	12	0.983	25.0	1.303	33.1	1.309	1.964	70	1.78
1882-61680	16	1.089	27.7	1.355	34.4	1.560	2.339	70	1.78
1885-60480	4	0.574	14.6	0.770	19.6	0.482	0.723	50	1.27
1885-61280	12	0.930	23.6	1.196	30.4	1.103	1.654	70	1.78
1885-61680	16	1.030	26.2	1.296	32.9	1.344	2.016	70	1.78
Conductor size: 1.5 mm²									
1882-N0480	4	0.625	15.9	0.821	20.9	0.564	0.846	50	1.27
1882-N1280	12	1.017	25.8	1.283	32.6	1.374	2.060	70	1.78
1882-N1680	16	1.129	28.7	1.395	35.4	1.638	2.456	70	1.78
1885-N0480	4	0.594	15.1	0.790	20.1	0.504	0.755	50	1.27
1885-N1280	12	0.964	25.0	1.230	31.2	1.200	1.799	70	1.78
1885-N1680	16	1.068	27.1	1.334	33.9	1.414	2.120	70	1.78

300 Volt Thermoplastic PVC (Single Pair – Steel Interlocked Armor)





Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation. . . . . 15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 2
- Color code . . . . . Black and white
- Pair shield . . . . . (Type 1859) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor. . . . . Flexible, interlocked galvanized steel armor

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- The interlocked armor provides mechanical protection as well as cut-through and crush resistance
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1856 – Single pair unshielded
- 1859 – Single pair shielded

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, CSA, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Aluminum interlocked armor cable design

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1856	pF/ft	pF/m	31	100	36	119	37	122
Type 1859	pF/ft	pF/m	49	160	64	210	67	218
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

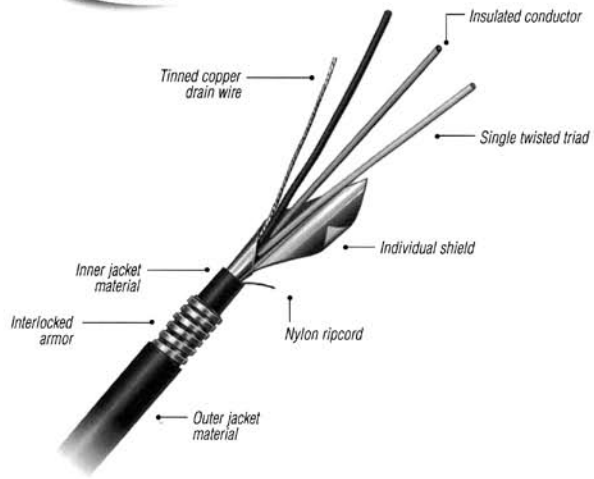
Product Dimensions

Part Number	Pairs	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1856-086RR	1	0.231	5.9	0.471	12.0	0.095	0.142	35	0.89
1859-086RR	1	0.236	6.0	0.476	12.1	0.100	0.150	35	0.89
Conductor size: 16 AWG / 1.3 mm²									
1856-686RR	1	0.274	7.0	0.514	13.1	0.121	0.181	35	0.89
1859-686RR	1	0.278	7.1	0.518	13.2	0.130	0.195	35	0.89
Conductor size: 1.5 mm²									
1856-N86RR	1	0.282	7.2	0.522	13.3	0.126	0.189	35	0.89
1859-N86RR	1	0.286	7.2	0.526	13.4	0.135	0.203	35	0.89

300 Volt Thermoplastic PVC (Single Triad – Steel Interlocked Armor)

1866

1869



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . .15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 3
- Color code . . . . . Black, white and red
- Triad shield . . . . . (Type 1869) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor. . . . . Flexible, interlocked galvanized steel armor

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- The interlocked armor provides mechanical protection as well as cut-through and crush resistance
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1866 – Single triad unshielded
- 1869 – Single triad shielded

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, CSA, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Aluminum interlocked armor cable design

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

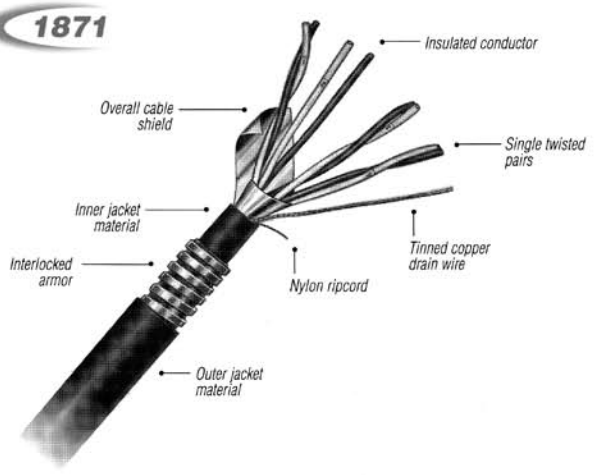
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1866	pF/ft	pF/m	31	100	36	119	37	122
Type 1869	pF/ft	pF/m	49	160	64	210	67	218
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

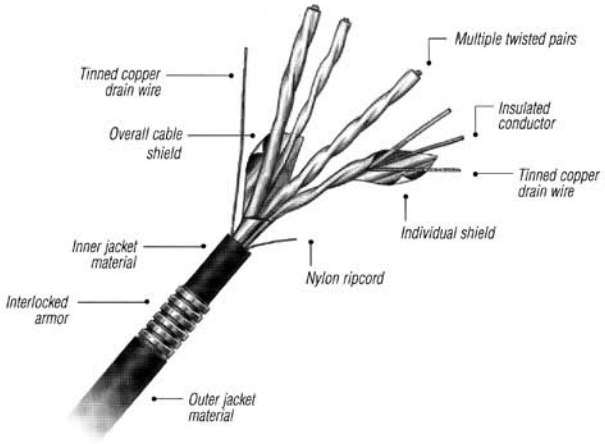
Part Number	Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1866-086RR	1	0.242	6.2	0.482	12.2	0.100	0.149	35	0.89
1869-086RR	1	0.253	6.4	0.493	12.5	0.109	0.163	35	0.89
Conductor size: 16 AWG / 1.3 mm²									
1866-686RR	1	0.288	7.3	0.528	13.4	0.133	0.199	35	0.89
1869-686RR	1	0.312	7.9	0.552	14.0	0.147	0.220	35	0.89
Conductor size: 1.5 mm²									
1866-N86RR	1	0.307	7.8	0.547	13.9	0.139	0.207	35	0.89
1869-N86RR	1	0.321	8.2	0.561	14.2	0.162	0.243	35	0.89

300 Volt Thermoplastic PVC (Multiple Pair – Steel Interlocked Armor)

1871



1876



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . .15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 2
- Color code . . . . . Black and white
- Group identification . . . Each pair numbered
- Pair shield . . . . . (Type 1876) 100% coverage, an aluminum-polyester tape shield and a 7-strand, tinned copper drain wire
- Overall shield. . . . . (Type 1871/1876) 100% coverage, an aluminum-polyester tape shield and a 7-strand, tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor. . . . . Flexible, interlocked galvanized steel armor
- Communications wire. . . . . 22 AWG copper, color-coded orange

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- The interlocked armor provides mechanical protection as well as cut-through and crush resistance
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1871 – Multiple pair overall shield
- 1876 – Multiple pair individual and overall shield

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, CSA, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Aluminum interlocked armor cable design

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

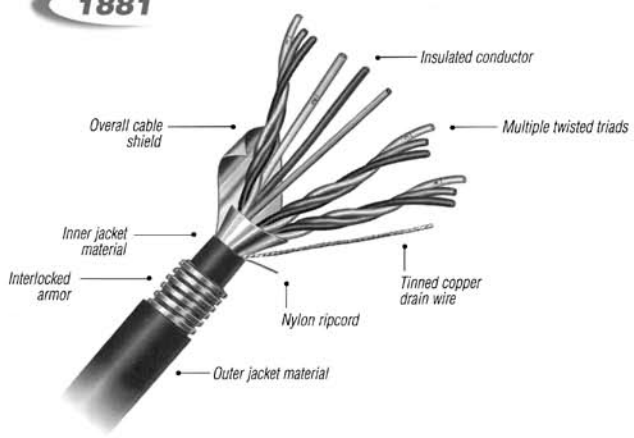
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1871	pF/ft	pF/m	31	100	36	119	37	122
Type 1876	pF/ft	pF/m	49	160	64	210	67	218
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

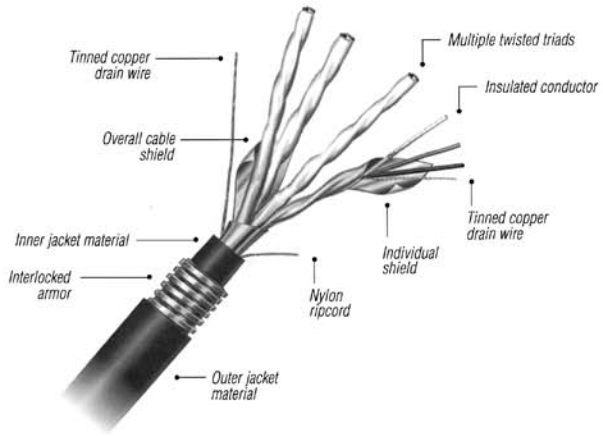
Part Number	Pairs	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1871-00480	4	0.396	10.1	0.646	16.4	0.280	0.420	40	1.02
1871-00880	8	0.523	13.3	0.793	20.1	0.402	0.602	50	1.27
1871-01280	12	0.606	15.4	0.876	22.3	0.484	0.726	50	1.27
1871-01680	16	0.696	17.7	0.986	25.0	0.624	0.936	60	1.52
1871-02480	24	0.813	20.6	1.103	28.0	0.772	1.158	60	1.52
1871-03680	36	0.951	24.2	1.261	32.0	1.019	1.528	70	1.78
1876-00480	4	0.457	11.6	0.727	18.5	0.304	0.452	50	1.27
1876-00880	8	0.575	14.6	0.845	21.5	0.404	0.601	50	1.27
1876-01280	12	0.708	18.0	0.998	25.3	0.563	0.838	60	1.52
1876-01680	16	0.781	19.8	1.071	27.2	0.646	0.961	60	1.52
1876-02480	24	0.972	24.7	1.282	32.6	0.856	1.273	70	1.78
1876-03680	36	1.105	28.1	1.415	35.9	1.106	1.645	70	1.78
Conductor size: 16 AWG / 1.3 mm²									
1871-60480	4	0.516	13.1	0.786	20.0	0.400	0.600	50	1.27
1871-60880	8	0.663	16.8	0.953	24.2	0.617	0.925	60	1.52
1871-61280	12	0.772	19.6	1.062	27.0	0.771	1.156	60	1.52
1871-61680	16	0.863	21.9	1.153	29.3	0.906	1.358	60	1.52
1871-62480	24	1.038	26.4	1.348	34.2	1.232	1.848	70	1.78
1871-63680	36	1.192	30.3	1.502	38.2	1.596	2.394	70	1.78
1876-60480	4	0.553	14.0	0.823	20.9	0.446	0.668	50	1.27
1876-60880	8	0.727	18.5	1.017	25.8	0.703	1.054	60	1.52
1876-61280	12	0.873	22.2	1.163	29.5	0.897	1.345	60	1.52
1876-61680	16	0.988	25.1	1.278	32.5	1.117	1.675	60	1.52
1876-62480	24	1.211	30.8	1.521	38.6	1.481	2.221	70	1.78
1876-63680	36	1.404	35.7	1.734	44.0	2.009	3.012	80	2.03
Conductor size: 1.5 mm²									
1871-N0480	4	0.533	13.5	0.803	20.4	0.418	0.626	50	1.27
1871-N0880	8	0.686	17.4	0.976	24.8	0.644	0.966	60	1.52
1871-N1280	12	0.800	20.3	1.090	27.7	0.807	1.210	60	1.52
1871-N1680	16	0.894	22.7	1.204	30.6	0.960	1.440	70	1.78
1871-N2480	24	1.076	27.3	1.386	35.2	1.304	1.955	70	1.78
1871-N3680	36	1.237	31.4	1.567	39.8	1.693	2.539	80	2.03
1876-N0480	4	0.571	14.5	0.841	21.4	0.464	0.696	50	1.27
1876-N0880	8	0.751	19.1	1.041	26.4	0.733	1.099	60	1.52
1876-N1280	12	0.904	23.0	1.194	30.3	0.939	1.408	60	1.52
1876-N1680	16	1.023	26.0	1.333	33.9	1.177	1.765	70	1.78
1876-N2480	24	1.255	31.9	1.565	39.8	1.569	2.354	70	1.78
1876-N3680	36	1.456	37.0	1.766	44.9	2.119	3.179	70	1.78

300 Volt Thermoplastic PVC (Multiple Triad – Steel Interlocked Armor)

1881



1886



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . 15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors per group 3
- Color code . . . . . Black, white and red
- Group identification . . . Each triad numbered
- Triad shield . . . . . (Type 1886) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield . . . . . .(Type 1881/1886) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Inner and outer jacket . . Black FR-PVC
- Armor. . . . . Flexible, interlocked galvanized steel armor
- Communications wire. . . . . 22 AWG copper, color-coded orange

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725/727
- The interlocked armor provides mechanical protection as well as cut-through and crush resistance
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1881 – Multiple triad overall shield
- 1886 – Multiple triad individual and overall shield

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, CSA, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Aluminum interlocked armor cable design

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

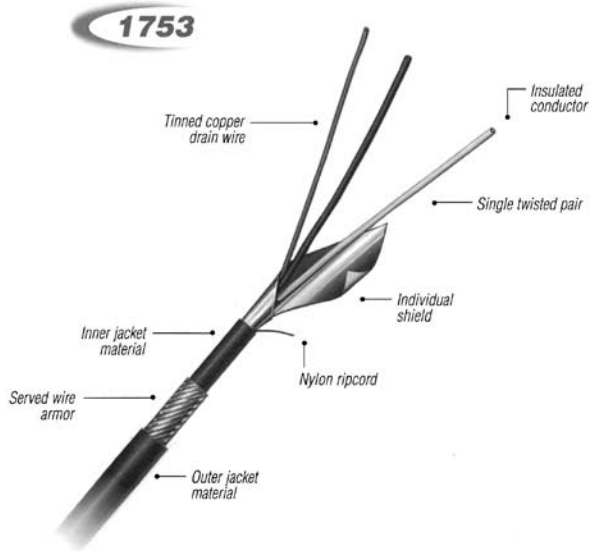
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.1	13.7	3.6	11.9
Mutual Capacitance								
Type 1881	pF/ft	pF/m	31	100	36	119	37	122
Type 1886	pF/ft	pF/m	49	160	64	210	67	218
L/R Ratio	µH/Ω	µH/Ω	9	9	20	20	22	22
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.17	0.54	0.16	0.53

Product Dimensions

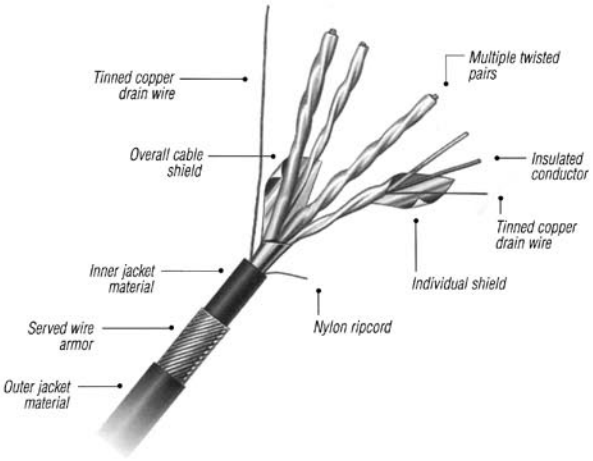
Part Number	Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1881-00480	4	0.470	12.0	0.740	18.8	0.339	0.508	50	1.27
1881-01280	12	0.732	18.6	1.022	26.0	0.626	0.939	60	1.52
1881-01680	16	0.808	20.5	1.098	27.9	0.710	1.065	60	1.52
1886-00480	4	0.497	12.6	0.767	19.5	0.349	0.519	50	1.27
1886-01280	12	0.777	19.7	1.067	27.1	0.673	1.001	60	1.52
1886-01680	16	0.902	22.9	1.192	30.3	0.787	1.171	60	1.52
Conductor size: 16 AWG / 1.3 mm²									
1881-60480	4	0.574	14.6	0.844	21.4	0.455	0.683	50	1.27
1881-61280	12	0.931	23.6	1.241	31.5	0.927	1.390	70	1.78
1881-61680	16	1.030	26.2	1.340	34.0	1.156	1.733	70	1.78
1886-60480	4	0.605	15.4	0.875	22.2	0.513	0.769	50	1.27
1886-61280	12	0.983	25.0	1.293	32.8	1.138	1.707	70	1.78
1886-61680	16	1.146	29.1	1.456	37.0	1.361	2.040	70	1.78
Conductor size: 1.5 mm²									
1881-N0480	4	0.595	15.1	0.865	22.0	0.476	0.714	50	1.27
1881-N1280	12	0.964	24.5	1.274	32.4	1.029	1.542	70	1.78
1881-N1680	16	1.068	27.1	1.378	35.0	1.215	1.822	70	1.78
1886-N0480	4	0.625	15.9	0.895	22.7	0.536	0.804	50	1.27
1886-N1280	12	1.017	25.8	1.327	33.7	1.197	1.795	70	1.78
1886-N1680	16	1.187	30.1	1.497	38.0	1.432	2.148	70	1.78

300 Volt Thermoplastic Polyethylene (Served Wire Armor)

1753



1772



Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation. . . . 15 mils (0.4 mm) for 20 AWG, 20 mils (0.5 mm) for 18 AWG and larger, polyethylene
- Color code . . . . . Black and white (pairs) Black, white and red (triads)
- Group identification . . Each pair/triad numbered
- Pair/triad shield . . . . . (Type 1753/1763/1772/1782) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield . . . . . (Type 1772/1775/1782/1785) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket . . . . . Black FR-PVC
- Armor. . . . . Multiple strands of served galvanized steel wire (SWA)

Application

- Excellent dielectric properties
- Good chemical and long-term moisture resistance
- Non-flame retardant (does not pass IEEE 383 or IEC 332)
- 300 volt rated insulation per ICEA

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1751 – Single pair unshielded
- 1753 – Single pair shielded
- 1761 – Single triad unshielded
- 1763 – Single triad shielded
- 1772 – Multiple pair individual and overall shield
- 1775 – Multiple pair overall shield
- 1782 – Multiple triad individual and overall shield
- 1785 – Multiple triad overall shield

Cable Options

- Manufactured in accordance with ICEA. Also available to IEC, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- LDPE or CPE jacket

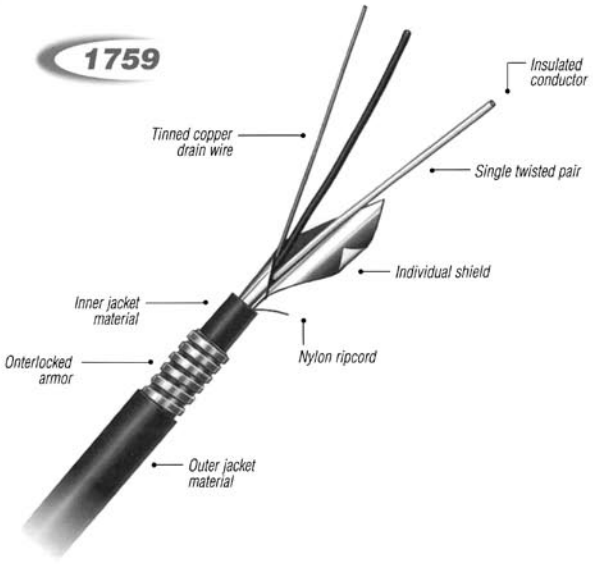
The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

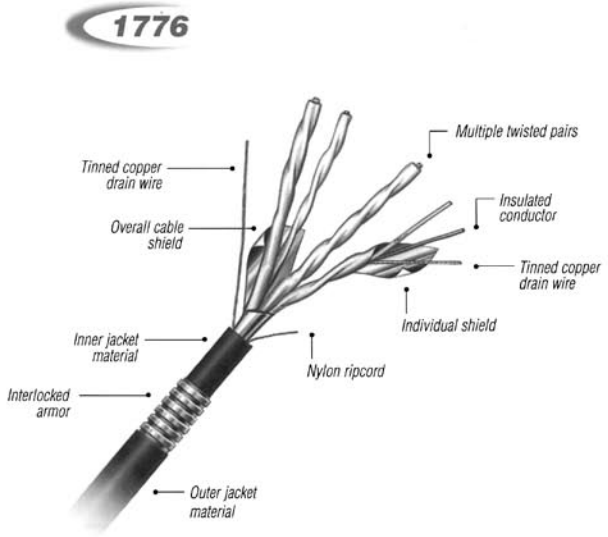
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.2	13.7	3.6	11.9
Mutual Capacitance								
Type 1751	pF/ft	pF/m	15	51	16	54	17	55
Type 1753	pF/ft	pF/m	26	85	29	94	30	97
Type 1761	pF/ft	pF/m	15	51	16	54	17	55
Type 1763	pF/ft	pF/m	26	85	29	94	30	97
Type 1772	pF/ft	pF/m	26	85	29	94	30	97
Type 1775	pF/ft	pF/m	15	51	16	54	17	55
Type 1782	pF/ft	pF/m	26	85	29	94	30	97
Type 1785	pF/ft	pF/m	15	51	16	54	17	55
L/R Ratio	µH/Ω	µH/Ω	9	9	21	21	24	24
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.18	0.59	0.18	0.58

Product Dimensions

Part Number	Pairs/Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1751-08632	1 PR	0.231	5.9	0.377	9.6	0.107	0.160	50	1.27
1753-08632	1 PR	0.236	6.0	0.382	9.7	0.113	0.168	50	1.27
1761-08632	1 TR	0.242	6.2	0.388	9.9	0.115	0.172	50	1.27
1763-08632	1 TR	0.253	6.4	0.399	10.1	0.121	0.180	50	1.27
1772-00480	4 PR	0.457	11.6	0.627	15.9	0.248	0.371	50	1.27
1772-01280	12 PR	0.708	18.0	0.964	24.5	0.675	1.011	65	1.65
1772-02480	24 PR	0.972	24.7	1.228	31.2	1.020	1.530	65	1.65
1775-00480	4 PR	0.396	10.1	0.566	14.4	0.225	0.336	50	1.27
1775-01280	12 PR	0.606	15.4	0.802	20.4	0.471	0.706	50	1.27
1775-02480	24 PR	0.813	20.6	1.069	27.1	0.821	1.231	65	1.65
Conductor size: 16 AWG / 1.3 mm²									
1751-68A32	1 PR	0.306	7.8	0.452	11.5	0.129	0.193	50	1.27
1753-68A32	1 PR	0.311	7.9	0.457	11.6	0.138	0.206	50	1.27
1761-68A32	1 TR	0.323	8.2	0.469	11.9	0.141	0.210	50	1.27
1763-68A32	1 TR	0.337	8.6	0.507	12.8	0.190	0.284	50	1.27
1772-604A0	4 PR	0.604	15.3	0.800	20.3	0.474	0.711	50	1.27
1772-612A0	12 PR	0.981	24.9	1.237	31.4	1.084	1.626	65	1.65
1772-624A0	24 PR	1.358	34.5	1.614	41.0	1.688	2.532	65	1.65
1775-604A0	4 PR	0.564	14.3	0.760	19.3	0.399	0.599	50	1.27
1775-612A0	12 PR	0.850	21.6	1.106	28.1	0.901	1.351	65	1.65
1775-624A0	24 PR	1.146	29.1	1.402	35.6	1.404	2.105	65	1.65
Conductor size: 1.5 mm²									
1751-N8A32	1 PR	0.314	8.0	0.460	11.7	0.133	0.200	50	1.27
1753-N8A32	1 PR	0.319	8.1	0.465	11.8	0.143	0.213	50	1.27
1761-N8A32	1 TR	0.331	8.4	0.501	12.7	0.186	0.278	50	1.27
1763-N8A32	1 TR	0.346	8.8	0.516	13.1	0.198	0.296	50	1.27
1772-N04A0	4 PR	0.622	15.8	0.818	20.8	0.493	0.739	50	1.27
1772-N12A0	12 PR	1.012	25.7	1.268	32.2	1.130	1.694	65	1.65
1772-N24A0	24 PR	1.402	35.6	1.688	42.9	1.770	2.207	80	2.03
1775-N04A0	4 PR	0.581	14.8	0.777	19.7	0.445	0.667	50	1.27
1775-N12A0	12 PR	0.877	22.3	1.133	28.8	0.985	1.477	65	1.65
1775-N24A0	24 PR	1.184	30.1	1.440	36.6	1.472	2.207	65	1.65

300 Volt Thermoplastic Polyethylene (Steel Interlocked Armor)





Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . 15 mils (0.4 mm) for 20 AWG, 20 mils (0.5 mm) for 18 AWG and larger, polyethylene
- Color code . . . . . Black and white (pairs) Black, white and red (triads)
- Group identification . . . Each pair/triad numbered
- Pair/triad shield . . . . . (Type 1759/1769/1776/1786) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. . . . . (Type 1771/1776/1781/1786) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket . . . . . Black FR-PVC
- Armor. . . . . Flexible, interlocked galvanized steel armor

Application

- Excellent dielectric properties
- Good chemical and long-term moisture resistance
- Non-flame retardant (does not pass IEEE 383 or IEC 332)
- 300 volt rated insulation per ICEA

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1756 – Single pair unshielded
- 1759 – Single pair shielded
- 1766 – Single triad unshielded
- 1769 – Single triad shielded
- 1771 – Multiple pair overall shield
- 1776 – Multiple pair individual and overall shield
- 1781 – Multiple triad overall shield
- 1786 – Multiple triad individual and overall shield

Cable Options

- Manufactured in accordance to ICEA. Also available to IEC, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Aluminum interlocked armor cable design
- LDPE or CPE jacket

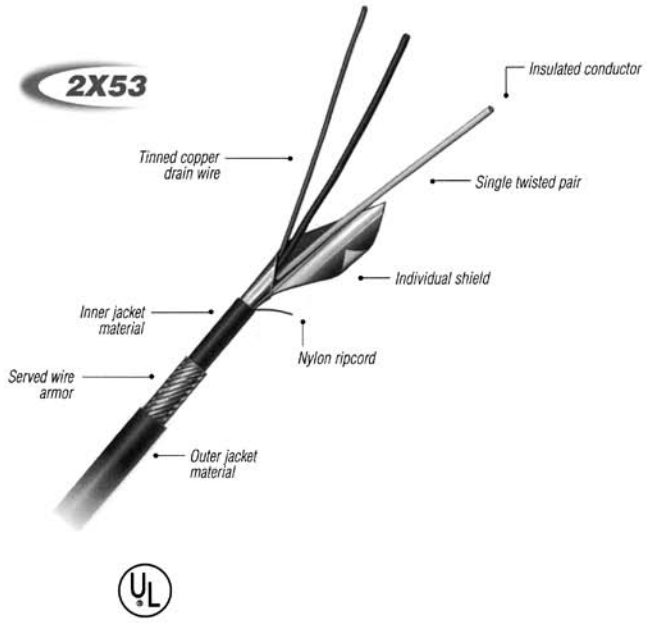
The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

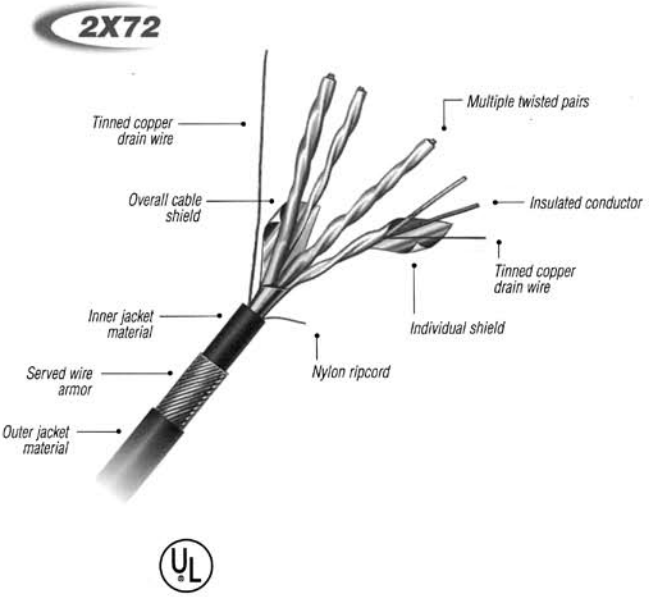
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.2	13.7	3.6	11.9
Mutual Capacitance								
Type 1756	pF/ft	pF/m	15	51	16	54	17	55
Type 1759	pF/ft	pF/m	26	85	29	94	30	97
Type 1766	pF/ft	pF/m	15	51	16	54	17	55
Type 1769	pF/ft	pF/m	26	85	29	94	30	97
Type 1771	pF/ft	pF/m	15	51	16	54	17	55
Type 1776	pF/ft	pF/m	26	85	29	94	30	97
Type 1781	pF/ft	pF/m	15	51	16	54	17	55
Type 1786	pF/ft	pF/m	26	85	29	94	30	97
L/R Ratio	µH/Ω	µH/Ω	9	9	21	21	24	24
Inductance (L)	µH/ft	µH/m	0.19	0.62	0.18	0.59	0.18	0.58

Product Dimensions

Part Number	Pairs/Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
1756-08632	1 PR	0.231	5.9	0.501	12.7	0.095	0.142	50	1.27
1759-08632	1 PR	0.236	6.0	0.506	12.9	0.100	0.150	50	1.27
1766-08632	1 TR	0.242	6.2	0.512	13.0	0.102	0.152	50	1.27
1769-08632	1 TR	0.253	6.4	0.523	13.3	0.109	0.163	50	1.27
1771-00480	4 PR	0.396	10.1	0.666	16.9	0.257	0.386	50	1.27
1771-01280	12 PR	0.606	15.4	0.876	22.3	0.435	0.653	50	1.27
1771-02480	24 PR	0.813	20.6	1.083	27.5	0.633	0.949	50	1.27
1776-00480	4 PR	0.457	11.6	0.727	18.5	0.279	0.418	50	1.27
1776-01280	12 PR	0.708	18.0	0.978	24.8	0.501	0.752	50	1.27
1776-02480	24 PR	0.972	24.7	1.242	31.5	0.796	1.194	50	1.27
Conductor size: 16 AWG / 1.3 mm²									
1756-68A32	1 PR	0.306	7.8	0.576	14.6	0.121	0.181	50	1.27
1759-68A32	1 PR	0.311	7.9	0.581	14.8	0.130	0.195	50	1.27
1766-68A32	1 TR	0.323	8.2	0.593	15.1	0.133	0.199	50	1.27
1769-68A32	1 TR	0.337	8.6	0.607	15.4	0.147	0.220	50	1.27
1771-604A0	4 PR	0.564	14.3	0.834	21.2	0.366	0.549	50	1.27
1771-612A0	12 PR	0.852	21.6	1.120	28.4	0.695	1.042	50	1.27
1771-624A0	24 PR	1.146	29.1	1.416	36.0	1.123	1.684	50	1.27
1776-604A0	4 PR	0.604	15.3	0.874	22.2	0.439	0.657	50	1.27
1776-612A0	12 PR	0.981	24.9	1.251	31.8	0.856	1.284	50	1.27
1776-624A0	24 PR	1.358	34.5	1.628	41.4	1.413	2.119	50	1.27
Conductor size: 1.5 mm²									
1756-N8A32	1 PR	0.314	8.0	0.584	14.8	0.126	0.189	50	1.27
1759-N8A32	1 PR	0.319	8.1	0.589	15.0	0.135	0.203	50	1.27
1766-N8A32	1 TR	0.331	8.4	0.601	15.3	0.139	0.207	50	1.27
1769-N8A32	1 TR	0.346	8.8	0.616	15.6	0.162	0.243	50	1.27
1771-N04A0	4 PR	0.581	14.8	0.851	21.6	0.410	0.614	50	1.27
1771-N12A0	12 PR	0.877	22.3	1.147	29.1	0.766	1.149	50	1.27
1771-N24A0	24 PR	1.184	30.1	1.454	36.9	1.191	1.786	50	1.27
1776-N04A0	4 PR	0.622	15.8	0.892	22.7	0.457	0.685	50	1.27
1776-N12A0	12 PR	1.012	25.7	1.282	32.6	0.897	1.346	50	1.27
1776-N24A0	24 PR	1.402	35.6	1.672	42.5	1.480	2.220	50	1.27

300 Volt Thermoset XLPE (Served Wire Armor)





Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . 15 mils (0.5 mm) XLPE
- Color code . . . . . Black and white (pairs)
  Black, white and red (triads)
- Group identification . . . Each pair/triad numbered
- Pair/triad shield . . . . . (Type 2X53/2X63/2X72/2X82)
  100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. . . . . (Type 2X72/2X75/2X85/2X82)
  100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket . . . . . Black FR-PVC
- Armor. . . . . Multiple strands of served galvanized steel wire

Application

- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- Good chemical and long-term moisture resistance
- NEC Article 725/727
- Flame retardant

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 2X51 – Single pair unshielded
- 2X53 – Single pair shielded
- 2X61 – Single triad unshielded
- 2X63 – Single triad shielded
- 2X72 – Multiple pair individual and overall shield
- 2X75 – Multiple pair overall shield
- 2X82 – Multiple triad individual and overall shield
- 2X85 – Multiple triad overall shield

Cable Options

- Manufactured in accordance with UL. Also available to ICEA, IEC, CSA, BS standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- CPE or Hypalon jacket

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

Note: Substituting 3x for 2x will upgrade Insulated Single Flame performance to VW-1

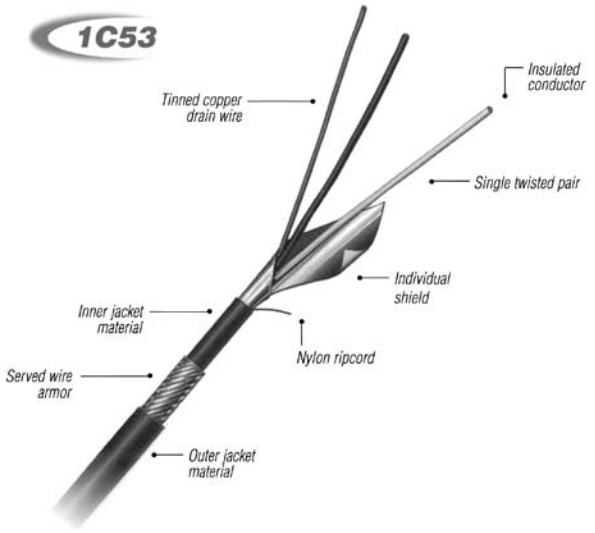
Electrical Properties	Units	Conductor Size					
		1.3mm²	1.5mm²		2.1mm²	2.5mm²	
Resistance (R)	Ω/km	13.7	3.6	11.9	8.6	2.2	7.2
Mutual Capacitance							
Type 1C53	pF/m	184	58	191	210	67	221
L/R Ratio	µH/Ω	21	24	24	31	35	35
Inductance (L)	µH/m	0.58	0.17	0.57	0.54	0.16	0.53

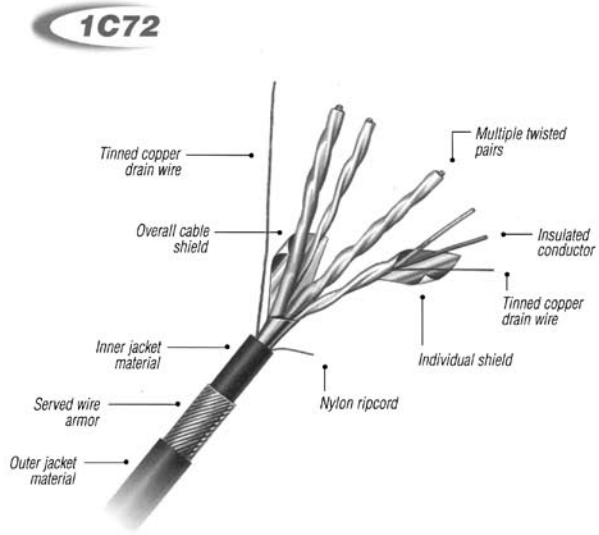
Electrical Properties	Units		Conductor Size					
			20 AWG / 0.5 mm²		16 AWG / 1.3 mm²		1.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	10.5	34.5	4.2	13.7	3.6	11.9
Mutual Capacitance								
Type 2X51	pF/ft	pF/m	18	60	22	71	22	73
Type 2X53	pF/ft	pF/m	28	93	37	121	38	125
Type 2X61	pF/ft	pF/m	18	60	22	71	22	73
Type 2X63	pF/ft	pF/m	28	93	37	121	38	125
Type 2X75	pF/ft	pF/m	18	60	22	71	22	73
Type 2X72	pF/ft	pF/m	28	93	37	121	38	125
Type 2X85	pF/ft	pF/m	18	60	22	71	22	73
Type 2X82	pF/ft	pF/m	28	93	37	121	38	125
L/R Ratio	µH/Ω	µH/Ω	10	10	21	21	24	24
Inductance (L)	µH/ft	µH/m	0.21	0.67	0.18	0.59	0.18	0.58

Product Dimensions

Part Number	Number of Pairs/Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 20 AWG / 0.5 mm²									
2X53-09519	1 PR	0.258	6.6	0.374	9.5	0.100	0.149	35	0.89
2X63-09519	1 TR	0.279	7.1	0.395	10.0	0.109	0.162	35	0.89
2X75-00450	4 PR	0.474	12.0	0.644	16.4	0.261	0.389	50	1.27
2X75-00850	8 PR	0.587	14.9	0.783	19.9	0.342	0.509	50	1.27
2X75-01250	12 PR	0.704	17.9	0.950	24.1	0.421	0.627	60	1.52
2X75-02450	24 PR	0.942	23.9	1.208	30.7	1.145	1.706	70	1.78
2X72-00450	4 PR	0.508	12.9	0.704	17.9	0.294	0.438	50	1.27
2X72-00850	8 PR	0.665	16.9	0.881	22.4	0.466	0.694	60	1.52
2X72-01250	12 PR	0.796	20.2	1.042	26.5	0.750	1.117	60	1.52
2X72-02450	24 PR	1.099	27.9	1.365	34.7	1.086	1.618	70	1.78
Conductor size: 16 AWG / 1.3 mm²									
2X53-69519	1 PR	0.311	7.9	0.437	11.1	0.130	0.194	40	1.02
2X63-69519	1 TR	0.337	8.6	0.487	12.4	0.220	0.328	40	1.02
2X75-60450	4 PR	0.564	14.3	0.760	19.3	0.425	0.633	50	1.27
2X75-60850	8 PR	0.727	18.5	0.973	24.7	0.647	0.964	60	1.52
2X75-61250	12 PR	0.850	21.6	1.096	27.8	0.917	1.366	60	1.52
2X75-62450	24 PR	1.146	29.1	1.412	35.9	1.421	2.117	70	1.78
2X72-60450	4 PR	0.604	15.3	0.800	20.3	0.464	0.691	50	1.27
2X72-60850	8 PR	0.796	20.2	1.042	26.5	0.824	1.227	60	1.52
2X72-61250	12 PR	0.981	24.9	1.247	31.7	1.061	1.580	70	1.78
2X72-62450	24 PR	1.358	34.5	1.644	41.8	1.713	2.552	80	2.03
Conductor size: 1.5 mm²									
2X53-N9519	1 PR	0.319	8.1	0.465	11.8	0.203	0.302	50	1.27
2X63-N9519	1 TR	0.346	8.8	0.516	13.1	0.243	0.362	50	1.27
2X75-N0450	4 PR	0.581	14.8	0.777	19.7	0.443	0.660	50	1.27
2X75-N0850	8 PR	0.750	19.0	0.996	25.3	0.765	1.140	60	1.52
2X75-N1250	12 PR	0.877	22.3	1.123	28.5	0.961	1.431	60	1.52
2X75-N2450	24 PR	1.184	30.1	1.450	36.8	1.502	2.237	70	1.78
2X72-N0450	4 PR	0.622	15.8	0.818	20.8	0.483	0.719	50	1.27
2X72-N0850	8 PR	0.821	20.9	1.067	27.1	0.862	1.284	60	1.52
2X72-N1250	12 PR	1.012	25.7	1.278	32.5	1.113	1.658	70	1.78
2X72-N2450	24 PR	1.402	35.6	1.688	42.9	1.793	2.671	80	2.03

600 Volt Thermoplastic PVC/Nylon (Served Wire Armor)





Description

- Conductor. . . . . 7-strand bare copper, Class B
- Primary insulation . . . . 15 mils (0.4 mm) FR-PVC, 4 mils (0.1 mm) nylon
- Color code . . . . . .Black and white (pairs) Black, white and red (triads)
- Group identification . . . Each pair/triad numbered
- Pair/triad shield . . . . . (Type 1C53/1C63/1C72/1C82) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. . . . . (Type 1C72/1C75/1C82/1C85) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket. . . . . Black FR-PVC
- Armor. . . . . Multiple strands of served galvanized steel wire (SWA)

Application

- Offers resistance to a wide range of chemicals, including acids, alkalies, alcohol, petroleum and mineral oils
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- 600 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1C51 – Single pair unshielded
- 1C53 – Single pair shielded
- 1C61 – Single triad unshielded
- 1C63 – Single triad shielded
- 1C72 – Multiple pair individual and overall shield
- 1C75 – Multiple pair overall shield
- 1C82 – Multiple triad individual and overall shield
- 1C85 – Multiple triad overall shield

Cable Options

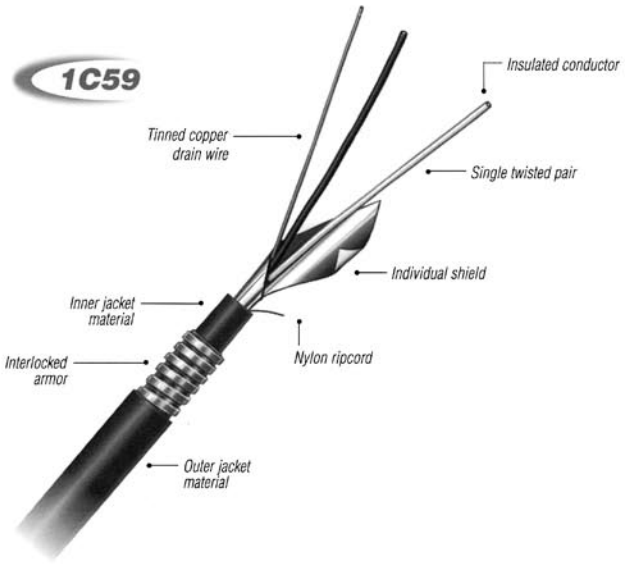
- Manufactured in accordance with ICEA. Also available to other standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Pairs color-coded black and red
- Triads color-coded black, red and blue
- Tinned copper conductors

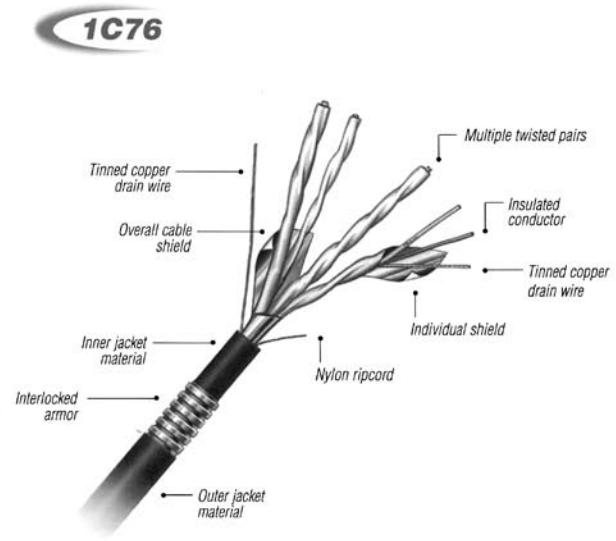
Electrical Properties	Units		Conductor Size							
			16 AWG / 1.3 mm²		1.5 mm²		14 AWG / 2.1 mm²		2.5 mm²	
Resistance (R)	Ω/Mft	Ω/km	4.2	13.7	3.6	11.9	2.6	8.6	2.2	7.2
Mutual Capacitance										
Type 1C51	pF/ft	pF/m	33	110	34	112	36	119	37	122
Type 1C53	pF/ft	pF/m	56	184	58	191	64	210	67	221
Type 1C61	pF/ft	pF/m	33	110	34	112	36	119	37	122
Type 1C63	pF/ft	pF/m	56	184	58	191	64	210	67	221
Type 1C72	pF/ft	pF/m	33	110	34	112	36	119	37	122
Type 1C75	pF/ft	pF/m	56	184	58	191	64	210	67	221
Type 1C82	pF/ft	pF/m	33	110	34	112	36	119	37	122
Type 1C85	pF/ft	pF/m	56	184	58	191	64	210	67	221
L/R Ratio	µH/Ω	µH/Ω	21	21	24	24	31	31	35	35
Inductance (L)	µH/ft	µH/m	0.18	0.58	0.17	0.57	0.17	0.54	0.16	0.53

Product Dimensions

Part Number	Pairs	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 16 AWG / 1.3 mm²									
1C72-60400	4	0.595	15.1	0.791	20.1	0.534	0.800	50	1.27
1C72-61200	12	0.966	24.5	1.222	31.0	1.202	1.803	65	1.65
1C72-62400	24	1.335	33.9	1.591	40.4	1.865	2.798	65	1.65
1C75-60400	4	0.556	14.1	0.752	19.1	0.446	0.668	50	1.27
1C75-61200	12	0.836	21.2	1.092	27.7	0.991	1.485	65	1.65
1C75-62400	24	1.127	28.6	1.383	35.1	1.533	2.299	65	1.65
Conductor size: 1.5 mm²									
1C72-N0400	4	0.613	15.6	0.809	20.5	0.552	0.828	50	1.27
1C72-N1200	12	0.996	25.3	1.252	31.8	1.253	1.878	65	1.65
1C72-N2400	24	1.380	35.0	1.666	42.3	1.927	2.890	80	2.03
1C75-N0400	4	0.573	14.6	0.769	19.5	0.501	0.751	50	1.27
1C75-N1200	12	0.864	21.9	1.120	28.4	1.090	1.634	65	1.65
1C75-N2400	24	1.165	29.6	1.421	36.1	1.618	2.426	65	1.65
Conductor size: 14 AWG									
1C72-40400	4	0.682	17.3	0.938	23.8	0.757	1.135	65	1.65
1C72-41200	12	1.081	27.5	1.337	34.0	1.465	2.197	65	1.65
1C72-42400	24	1.502	38.1	1.788	45.4	2.372	3.557	80	2.03
1C75-40400	4	0.619	15.7	0.815	20.7	0.570	0.854	50	1.27
1C75-41200	12	0.958	24.3	1.214	30.8	1.251	1.876	65	1.65
1C75-42400	24	1.269	32.2	1.525	38.7	1.919	2.878	65	1.65
Conductor size: 2.5 mm²									
1C72-P0400	4	0.713	18.1	0.969	24.6	0.814	1.221	65	1.65
1C72-P1200	12	1.135	28.8	1.391	35.3	1.566	2.348	65	1.65
1C72-P2400	24	1.580	40.1	1.866	47.4	2.568	3.851	80	2.03
1C75-P0400	4	0.668	17.0	0.894	22.7	0.732	1.098	65	1.65
1C75-P1200	12	1.006	25.5	1.262	32.1	1.341	2.011	65	1.65
1C75-P2400	24	1.356	34.4	1.612	40.9	2.067	3.100	65	1.65

600 Volt Thermoplastic PVC/Nylon (Steel Interlocked Armor)





Description

- Conductor . . . . . 7-strand bare copper, Class B
- Primary insulation . . . . .15 mils (0.4 mm) FR-PVC
  4 mils (0.1 mm) nylon
- Color code . . . . . Black and white (pairs)
  Black, white and red (triads)
- Group identification . . . Each pair/triad numbered
- Pair/triad shield . . . . . (Type 1C59/1C69/1C76/1C86)
  100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield . . . . . .(Type 1C71/1C76/1C81/1C86)
  100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket . . . . . Black FR-PVC
- Armor. . . . . Flexible interlocked galvanized steel armor

Application

- Offers resistance to a wide range of chemicals, including acids, alkalies, alcohol, petroleum and mineral oils
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- 600 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1C56 – Single pair unshielded
- 1C59 – Single pair shielded
- 1C66 – Single triad unshielded
- 1C69 – Single triad shielded
- 1C71 – Multiple pair overall shield
- 1C76 – Multiple pair individual and overall shield
- 1C81 – Multiple triad overall shield
- 1C86 – Multiple triad individual and overall shield

Cable Options

- Manufactured in accordance with ICEA. Also available to other standards or customized configurations.
- Various metric and AWG size conductors
- Special color coding of insulation and jacket materials
- Aluminum interlocked armor cable design
- Pairs color-coded black and red
- Triads color-coded black, red and blue
- Tinned copper conductors

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

Electrical Properties	Units		Conductor Size			
			16 AWG / 1.3 mm²		14 AWG / 2.1 mm²	
Resistance (R)	Ω/Mft	Ω/km	4.2	13.7	2.6	8.6
Mutual Capacitance						
Type 1C56	pF/ft	pF/m	33	110	36	119
Type 1C59	pF/ft	pF/m	56	184	64	210
Type 1C66	pF/ft	pF/m	33	110	36	119
Type 1C69	pF/ft	pF/m	56	184	64	210
Type 1C71	pF/ft	pF/m	33	110	36	119
Type 1C76	pF/ft	pF/m	56	184	64	210
Type 1C81	pF/ft	pF/m	33	110	36	119
Type 1C86	pF/ft	pF/m	56	184	64	210
L/R Ratio	µH/Ω	µH/Ω	21	21	31	31
Inductance (L)	µH/ft	µH/m	0.18	0.58	0.16	0.54

Product Dimensions

Part Number	Number of Pairs/Triads	Diameter Under Armor		Nominal O.D.		Weight		Jacket Thickness	
		in	mm	in	mm	lb/ft	kg/m	mils	mm
Conductor size: 16 AWG / 1.3 mm²									
1C71-60400	4	0.536	13.6	0.806	20.5	0.427	0.640	50	1.27
1C71-61200	12	0.836	21.2	1.106	28.1	0.777	1.164	50	1.27
1C71-62400	24	1.147	29.1	1.417	36.0	1.248	1.872	50	1.27
1C76-60400	4	0.615	15.6	0.885	22.5	0.505	0.757	50	1.27
1C76-61200	12	0.986	25.0	1.256	31.9	0.967	1.450	50	1.27
1C76-62400	24	1.335	33.9	1.605	40.8	1.571	2.355	50	1.27
1C81-60400	4	0.640	16.3	0.910	23.1	0.524	0.785	50	1.27
1C81-61200	12	1.029	26.1	1.299	33.0	0.996	1.494	50	1.27
1C81-62400	24	1.397	35.5	1.667	42.3	1.610	2.414	50	1.27
1C86-60400	4	0.672	17.1	0.942	23.9	0.580	0.869	50	1.27
1C86-61200	12	1.084	27.5	1.354	34.4	1.155	1.732	50	1.27
1C86-62400	24	1.477	37.5	1.747	44.4	2.123	3.184	50	1.27
Conductor size: 14 AWG / 2.1 mm²									
1C71-40400	4	0.639	16.2	0.909	23.1	0.539	0.809	50	1.27
1C71-41200	12	0.978	24.8	1.248	31.7	1.013	1.519	50	1.27
1C71-42400	24	1.289	32.7	1.559	39.6	1.640	2.459	50	1.27
1C76-40400	4	0.682	17.3	0.952	24.2	0.593	0.890	50	1.27
1C76-41200	12	1.101	28.0	1.371	34.8	1.202	1.803	50	1.27
1C76-42400	24	1.502	38.1	1.792	45.5	2.212	3.317	60	1.52
1C81-40400	4	0.713	18.1	0.983	25.0	0.619	0.928	50	1.27
1C81-41200	12	1.153	29.3	1.423	36.1	1.253	1.880	50	1.27
1C81-42400	24	1.577	40.1	1.867	47.4	2.313	3.470	60	1.52
1C86-40400	4	0.748	19.0	1.018	25.9	0.701	1.051	50	1.27
1C86-41200	12	1.214	30.8	1.484	37.7	1.467	2.201	50	1.27
1C86-42400	24	1.664	42.3	1.954	49.6	2.740	4.109	60	1.52