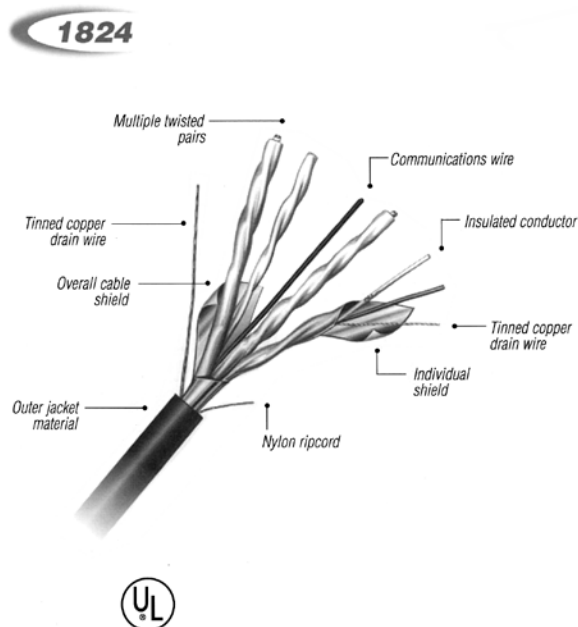
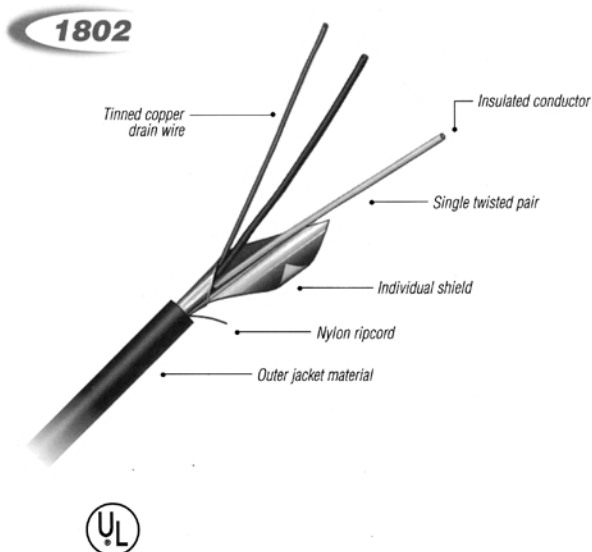


300 Volt Thermoplastic PVC



Description

- Conductor Solid alloy wire
- Primary insulation. . . . 15 mils (0.4 mm) 105°C PVC
- Color code ANSI standard
- Pair shield (Type 1802/1824) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. (Type 1820/1824) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket FR-PVC, ANSI color-coded
- Communication wire. (Type 1820/1824) 22-AWG copper, color-coded orange

Application

- UL listed as PLTC
- NEC Article 725
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- 300 volt rated insulation

Bending Radius

- $6 \times d$ (d = overall diameter)

Cable Type

- 1800 – Single pair unshielded
- 1802 – Single pair shielded
- 1820 – Multiple pair overall shield
- 1824 – Multiple pair individual and overall shield

Other 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.

Also available in 18 AWG

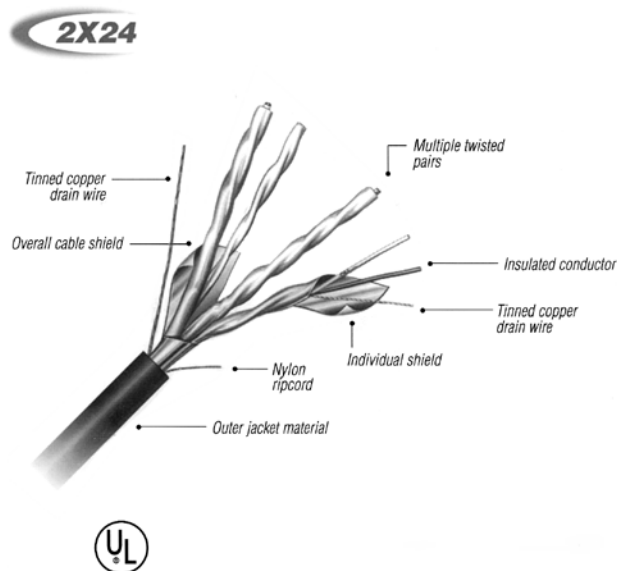
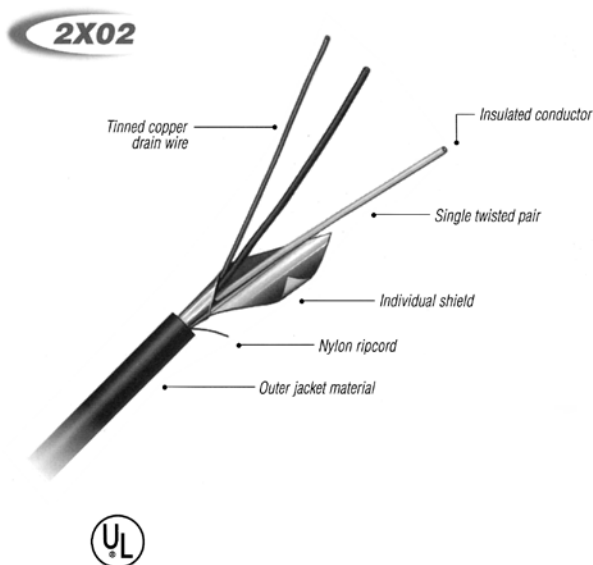
Electrical Properties	Units		Conductor Size			
			20 AWG / .5 mm ²		16 AWG / 1.3 mm ²	
Mutual Capacitance						
Type 1800	pF/ft	pF/m	31	100	36	119
Type 1802	pF/ft	pF/m	49	160	64	210
Type 1820	pF/ft	pF/m	31	100	36	119
Type 1824	pF/ft	pF/m	49	160	64	210
Inductance (L)	μH/ft	μH/m	0.19	0.62	0.17	0.54

Product Dimensions

Part Number	Pairs	Nominal O.D.		Weight		Jacket Thickness	
		in	mm	lb/ft	kg/m	mils	mm
Conductor Size: 20 AWG / 0.5 mm ²							
1800-0+60R	1 PR	0.231	5.9	0.026	0.039	35	0.89
1802-0+60R	1 PR	0.236	6.0	0.030	0.044	35	0.89
1820-004+0	4 PR	0.396	10.1	0.078	0.117	40	1.02
1820-008+0	8 PR	0.523	13.3	0.143	0.213	50	1.27
1820-012+0	12 PR	0.606	15.4	0.195	0.290	50	1.27
1820-024+0	24 PR	0.813	20.6	0.356	0.530	60	1.52
1820-036+0	36 PR	0.951	24.2	0.513	0.764	70	1.78
1824-004+0	4 PR	0.457	11.6	0.110	0.164	50	1.27
1824-008+0	8 PR	0.575	14.6	0.182	0.272	50	1.27
1824-012+0	12 PR	0.708	18.0	0.267	0.398	60	1.52
1824-024+0	24 PR	0.972	24.7	0.492	0.733	70	1.78
1824-036+0	36 PR	1.105	28.1	0.685	1.020	70	1.78
Conductor Size: 16 AWG / 1.3 mm ²							
1800-6+60R	1 PR	0.274	7.0	0.042	0.062	35	0.89
1802-6+60R	1 PR	0.278	7.1	0.046	0.069	35	0.89
1820-604+0	4 PR	0.516	13.1	0.148	0.220	50	1.27
1820-608+0	8 PR	0.663	16.8	0.264	0.393	60	1.52
1820-612+0	12 PR	0.772	19.6	0.367	0.546	60	1.52
1820-624+0	24 PR	1.038	26.4	0.683	1.018	70	1.78
1820-636+0	36 PR	1.192	30.3	0.970	1.444	70	1.78
1824-604+0	4 PR	0.553	14.0	0.178	0.264	50	1.27
1824-608+0	8 PR	0.727	18.5	0.323	0.480	60	1.52
1824-612+0	12 PR	0.873	22.2	0.456	0.679	60	1.52
1824-624+0	24 PR	1.211	30.8	0.860	1.281	70	1.78
1824-636+0	36 PR	1.404	35.7	1.250	1.862	80	2.03

Alloy Identification

Substitute for + in Part No.	ANSI Type	Alloy Identification		ANSI Color Code		Overall Jacket	Temperature Range °C	Limits of Error
		Positive Wire	Negative Wire	Positive Wire	Negative Wire			
1	EX	Chromel	Constantan	Purple	Red	Purple	0 to +200	+/-1.7°C
2	JX	Iron	Constantan	White	Red	Black	0 to +200	+/-2.2°C
3	KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200	+/-2.2°C
4	SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200	+/-5.0°C
5	TX	Copper	Constantan	Blue	Red	Blue	-60 to +100	+/-1.0°C



Description

- Conductor Solid alloy wire
- Primary insulation. . . 15 mils (0.5 mm) XLPE
- Color code ANSI standard
- Group identification . . Each pair numbered
- Pair shield (Type 2X02/2X24) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. (Type 2X20/2X24) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket FR-PVC, ANSI color coded

Application

- Excellent dielectric properties
- Good chemical and long-term moisture resistance
- Flame retardant
- UL listed as PLTC
- NEC Article 725

Bending Radius

- $6 \times d$ (d = overall diameter)

Cable Type

- 2X00 – Single pair unshielded
- 2X02 – Single pair shielded
- 2X20 – Multiple pair overall shield
- 2X24 – Multiple pair individual and overall shield

Cable Options

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

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

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

Also available in 18 AWG

Electrical Properties	Units		Conductor Size			
			20 AWG / 0.5 mm ²		16 AWG / 1.31 mm ²	
Mutual Capacitance						
Type 2X00	pF/ft	pF/m	16	51	18	60
Type 2X02	pF/ft	pF/m	24	79	31	103
Type 2X20	pF/ft	pF/m	16	51	18	60
Type 2X24	pF/ft	pF/m	24	79	31	103
Inductance (L)	μH/ft	μH/m	0.19	0.64	0.17	0.56

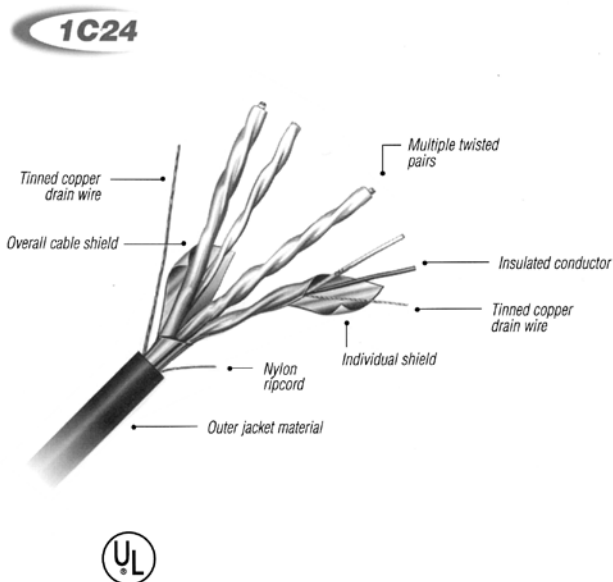
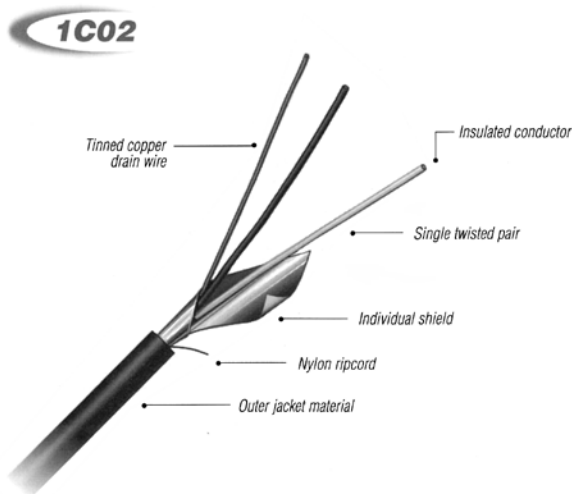
Product Dimensions

Part Number*	Pairs	Nominal Outer Diameter		Weight		Jacket Thickness	
		in	mm	lb/ft	kg/m	mils	mm
Conductor Size: 20 AWG / 0.5 mm ²							
2X00-0+510	1	0.222	5.6	0.024	0.030	35	0.89
2X02-0+510	1	0.227	5.8	0.029	0.043	35	0.89
2X20-004+0	4	0.377	9.6	0.072	0.017	40	1.02
2X20-008+0	8	0.498	12.6	0.130	0.194	50	1.27
2X20-012+0	12	0.576	14.6	0.176	0.262	50	1.27
2X20-024+0	24	0.771	19.6	0.320	0.476	60	1.52
2X24-004+0	4	0.436	11.1	0.102	0.153	50	1.27
2X24-008+0	8	0.547	13.9	0.168	0.251	50	1.27
2X24-012+0	12	0.673	17.1	0.246	0.367	60	1.52
2X24-024+0	24	0.902	22.9	0.435	0.648	60	1.52
Conductor Size: 16 AWG / 1.3 mm ²							
2X00-6+510	1	0.262	6.7	0.043	0.063	35	0.89
2X02-6+510	1	0.264	6.7	0.045	0.067	35	0.89
2X20-604+0	4	0.486	12.3	0.136	0.203	50	1.27
2X20-608+0	8	0.603	15.3	0.230	0.343	50	1.27
2X20-612+0	12	0.723	18.4	0.336	0.499	60	1.52
2X20-624+0	24	0.969	24.6	0.624	0.930	70	1.78
2X24-604+0	4	0.521	13.2	0.165	0.246	50	1.27
2X24-608+0	8	0.682	17.3	0.299	0.446	60	1.52
2X24-612+0	12	0.818	20.8	0.423	0.629	60	1.52
2X24-624+0	24	1.131	28.7	0.797	1.187	70	1.78

* Part number may change to 12 digits at time of order.

Alloy Identification

Substitute for + in Part No.	ANSI Type	Alloy Identification		ANSI Color Code		Overall Jacket	Temperature Range °C	Limits of Error
		Positive Wire	Negative Wire	Positive Wire	Negative Wire			
G	EX	Chromel	Constantan	Purple	Red	Purple	0 to +200	+/-1.7°C
H	JX	Iron	Constantan	White	Red	Black	0 to +200	+/-2.2°C
M	KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200	+/-2.2°C
J	SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200	+/-5.0°C
K	TX	Copper	Constantan	Blue	Red	Blue	-60 to +100	+/-1.0°C



Description

- Conductor Solid alloy wire
- Primary insulation. . . . 15 mils (0.4 mm) PVC,
4 mils (0.1 mm) nylon
- Color code ANSI standard
- Pair shield (Type 1C02/1C24) 100% coverage, an
aluminum-polyester tape shield and
a 7-strand tinned copper drain wire
- Overall shield. (Type 1C20/1C24) 100% coverage, an
aluminum-polyester tape shield and a
7-strand tinned copper drain wire
- Jacket FR-PVC, ANSI color-coded

Application

- UL listed as TC
- Suitable for Class I, Division 2 and
Class II, Division 2 hazardous areas
- 600 volt rated insulation

Bending Radius

- $6 \times d$ (d = overall diameter)

Cable Type

- 1C00 – Single pair unshielded
- 1C02 – Single pair shielded
- 1C20 – Multiple pair overall shield
- 1C24 – Multiple individual and overall shield

Other Options

- Manufactured in accordance with UL. Also available
to ICEA 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.

Also available in 18 AWG

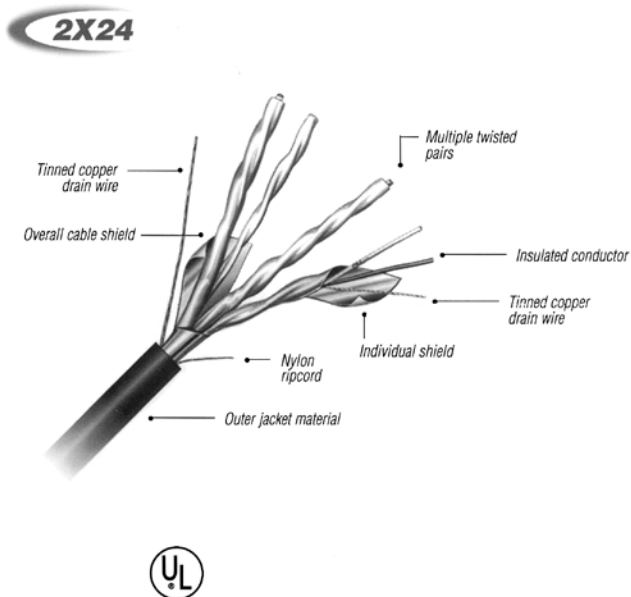
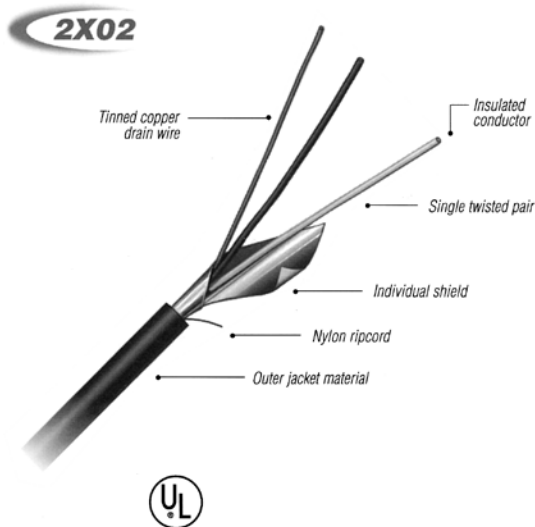
Electrical Properties	Units		Conductor Size	
			16 AWG / 1.3 mm ²	
Mutual Capacitance				
Type 1C00	pF/ft	pF/m	33	110
Type 1C02	pF/ft	pF/m	56	184
Type 1C20	pF/ft	pF/m	33	110
Type 1C24	pF/ft	pF/m	56	184
Inductance (L)	μH/ft	μH/m	0.18	0.58

Product Dimensions

Part Number	Pairs	Nominal O.D.		Weight		Jacket Thickness	
		in	mm	lb/ft	kg/m	mils	mm
Conductor Size: 16 AWG / 1.3 mm ²							
1C00-6+610	1	0.312	7.9	0.051	0.076	45	1.14
1C02-6+610	1	0.317	8.1	0.058	0.086	45	1.14
1C20-604+0	4	0.485	12.3	0.118	0.175	45	1.14
1C20-608+0	8	0.649	16.5	0.221	0.329	60	1.52
1C20-612+0	12	0.755	19.2	0.302	0.450	60	1.52
1C20-624+0	24	1.033	26.2	0.572	0.852	80	2.03
1C24-604+0	4	0.521	13.2	0.146	0.218	45	1.14
1C24-608+0	8	0.711	18.1	0.279	0.416	60	1.52
1C24-612+0	12	0.853	21.7	0.391	0.582	60	1.52
1C24-624+0	24	1.202	30.5	0.752	1.120	80	2.03

Alloy Identification

Substitute for + in Part No.	ANSI Type	Alloy Identification		ANSI Color Code		Overall Jacket	Temperature Range °C	Limits of Error
		Positive Wire	Negative Wire	Positive Wire	Negative Wire			
1	EX	Chromel	Constantan	Purple	Red	Purple	0 to +200	+/-1.7°C
2	JX	Iron	Constantan	White	Red	Black	0 to +200	+/-2.2°C
3	KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200	+/-2.2°C
4	SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200	+/-5.0°C
5	TX	Copper	Constantan	Blue	Red	Blue	-60 to +100	+/-1.0°C



Description

- Conductor Solid alloy wire
- Primary insulation. . . 30 mils (0.8 mm) XLPE
- Color code ANSI standard
- Group identification . . Each pair numbered
- Pair shield (Type 2X02/2X24) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Overall shield. (Type 2X20/2X24) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Jacket Black FR-PVC, ANSI color-coded

Application

- Excellent dielectric properties
- Good chemical and long-term moisture resistance
- Flame retardant
- UL listed

Bending Radius

- $6 \times d$ (d = overall diameter)

Cable Type

- 2X00 – Single pair unshielded
- 2X02 – Single pair shielded
- 2X20 – Multiple pair overall shield
- 2X24 – Multiple pair individual and 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
- CPE or Hypalon (CSPE) 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

Also available in 18 AWG

Electrical Properties	Units		Conductor Size	
			16 AWG / 1.3 mm ²	
Mutual Capacitance				
Type 1X00	pF/ft	pF/m	19	61
Type 1X02	pF/ft	pF/m	29	96
Type 1X20	pF/ft	pF/m	19	61
Type 1X24	pF/ft	pF/m	29	96
Inductance (L)	μH/ft	μH/m	0.2	0.66

Product Dimensions

Part Number*	Pairs	Nominal O.D.		Weight		Jacket Thickness	
		in	mm	lb/ft	kg/m	mils	mm
Conductor Size: 16 AWG / 1.3 mm ²							
2X00-6+610	1	0.356	9.0	0.061	0.091	45	1.14
2X02-6+610	1	0.361	9.2	0.071	0.105	45	1.14
2X20-604+0	4	0.668	17.0	0.209	0.312	60	1.52
2X20-608+0	8	0.839	21.3	0.348	0.518	60	1.52
2X20-612+0	12	1.026	26.1	0.522	0.777	80	2.03
2X20-624+0	24	1.356	34.4	0.923	1.374	80	2.03
2X24-604+0	4	0.713	18.1	0.254	0.378	60	1.52
2X24-608+0	8	0.959	24.4	0.472	0.703	80	2.03
2X24-612+0	12	1.155	29.3	0.660	0.983	80	2.03
2X24-624+0	24	1.580	40.1	1.193	1.777	80	2.03

* Part number may change to 12 digits at time of order.

Alloy Identification

Substitute for + in Part No.	ANSI Type	Alloy Identification		ANSI Color Code		Overall Jacket	Temperature Range °C	Limits of Error
		Positive Wire	Negative Wire	Positive Wire	Negative Wire			
B	EX	Chromel	Constantan	Purple	Red	Purple	0 to +200	+/-1.7°C
C	JX	Iron	Constantan	White	Red	Black	0 to +200	+/-2.2°C
D	KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200	+/-2.2°C
E	SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200	+/-5.0°C
F	TX	Copper	Constantan	Blue	Red	Blue	-60 to +100	+/-1.0°C