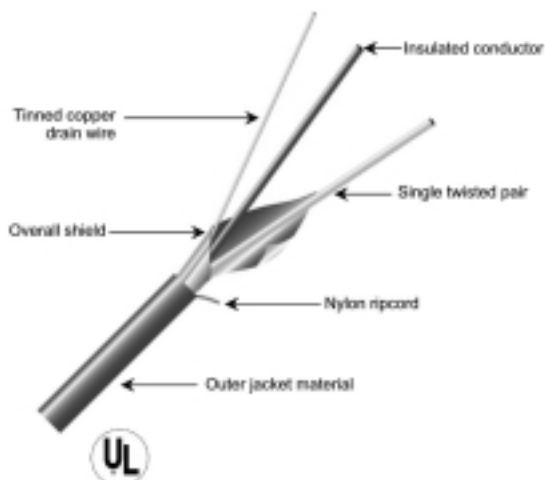
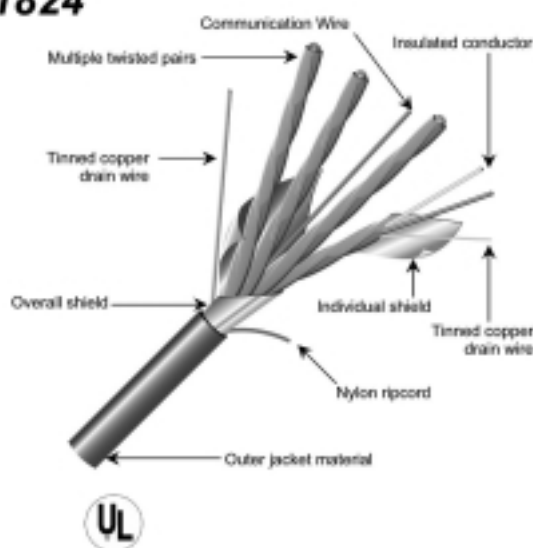


300 Volt Thermoplastic PVC

1802



1824



Description

- Conductor Solid alloy wire
- Primary Insulation 15 mils 105°C (0.4 mm) 105°C PVC
- Color code ANSI standard
- Group identification Each pair numbered
- 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
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- NEC Article 725
- 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.

Electrical Properties	Units		Conductor Size			
			20 AWG / 0.5mm ²		16 AWG / 1.3mm 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	0.18	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 / 0.5mm ²							
1800-0+60R	1	0.231	5.9	0.026	0.039	35	0.89
1802-0+60R	1	0.236	6.0	0.026	0.039	35	0.89
1820-004+0	4	0.396	10.1	0.078	0.116	40	1.02
1820-008+0	8	0.523	13.3	0.143	0.213	50	1.27
1820-012+0	12	0.606	15.4	0.195	0.290	50	1.27
1820-024+0	24	0.813	20.7	0.356	0.530	60	1.52
1820-036+0	36	0.951	24.2	0.513	0.764	70	1.78
1824-004+0	4	0.457	11.6	0.110	0.164	50	1.27
1824-008+0	8	0.575	14.6	0.182	0.271	50	1.27
1824-012+0	12	0.708	18.0	0.267	0.397	60	1.52
1824-024+0	24	0.972	24.7	0.492	0.732	70	1.78
1824-036+0	36	1.105	28.1	0.685	1.020	70	1.78
Conductor Size: 16 AWG / 1.3mm ²							
1800-6+60R	1	0.274	7.0	0.042	0.063	35	0.89
1802-6+60R	1	0.274	7.0	0.042	0.063	35	0.89
1820-604+0	4	0.516	13.1	0.148	0.220	50	1.27
1820-608+0	8	0.663	16.8	0.264	0.393	60	1.52
1820-612+0	12	0.772	19.6	0.367	0.546	60	1.52
1820-624+0	24	1.038	26.4	0.683	1.017	70	1.78
1820-636+0	36	1.192	30.3	0.970	1.444	70	1.78
1824-604+0	4	0.553	14.0	0.178	0.265	50	1.27
1824-608+0	8	0.727	18.5	0.323	0.481	60	1.52
1824-612+0	12	0.873	22.2	0.456	0.679	60	1.52
1824-624+0	24	1.211	30.8	0.860	1.280	70	1.78
1824-636+0	36	1.404	35.7	1.250	1.861	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