



Description

- Conductor Solid alloy wire
- Primary insulation. 15 mils (0.4 mm) 105°C FR-PVC
- Number of conductors 2
- Color code ANSI standard
- Pair shield (Type 1805/1828) 100% coverage, an aluminum-polyester tape and a 7-strand tinned copper drain wire
- Overall shield. (Type 1827/1828) 100% coverage, an aluminum-polyester tape shield and a 7-strand tinned copper drain wire
- Communication wire. (Type 1827/1828) 22-AWG copper, color-coded orange
- Inner jacket. Black FR-PVC, ANSI color-coded
- Dekabon layer An aluminum tape 8 mils (0.2 mm) thick, coated on both sides with a protective polymer 2 mils (0.05 mm) thick
- Outer jacket CPE, ANSI Color Coded

Application

- Dekabon cable provides special protection against moisture, most chemicals and abrasive backfilling
- Suitable for direct burial
- UL listed as PLTC/ITC
- Suitable for Class I, Division 2 and Class II, Division 2 hazardous areas
- 300 volt rated insulation

Bending Radius

- 12 x d (d = overall diameter)

Cable Type

- 1804 – Single pair unshielded
- 1805 – Single pair shielded
- 1827 – Multiple pair overall shield
- 1828 – Multiple pair individual and overall shield

Other 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

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 1804	pF/ft	pF/m	31	100	36	119
Type 1805	pF/ft	pF/m	49	160	64	210
Type 1827	pF/ft	pF/m	31	100	36	119
Type 1828	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	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									
Dekabon									
1804-0-6RS	1	0.231	5.9	0.361	9.2	0.083	0.123	35	1.27
1805-0-6RS	1	0.236	6.0	0.366	9.3	0.09	0.134	35	1.27
1827-004+S	4	0.396	10.1	0.556	14.1	0.136	0.203	50	1.27
1827-008+S	8	0.523	13.3	0.683	17.3	0.217	0.325	50	1.27
1827-012+S	12	0.606	15.4	0.786	20.0	0.275	0.412	60	1.52
1827-016+S	16	0.696	17.7	0.876	22.3	0.331	0.487	60	1.52
1827-024+S	24	0.813	20.6	1.010	25.7	0.487	0.73	70	1.78
1827-036+S	36	0.915	24.2	1.151	29.2	0.638	0.956	70	1.78
1828-004+S	4	0.457	11.6	0.697	15.2	0.152	0.228	40	1.02
1828-008+S	8	0.575	14.6	0.735	18.7	0.252	0.378	50	1.27
1828-012+S	12	0.708	18.0	0.868	22.0	0.332	0.497	50	1.27
1828-016+S	16	0.781	19.8	0.967	24.6	0.448	0.672	60	1.52
1828-024+S	24	0.972	24.7	1.152	29.3	0.603	0.903	60	1.52
1828-036+S	36	1.105	28.1	1.305	33.1	0.836	1.253	70	1.78
Conductor Size: 16 AWG / 1.3mm²									
Dekabon									
1804-6-6RS	1	0.274	7.0	0.404	10.3	0.082	0.123	35	0.89
1805-6-6RS	1	0.278	7.1	0.408	10.4	0.089	0.134	35	0.89
1827-604+S	4	0.476	13.6	0.656	16.7	0.233	0.348	50	1.27
1827-608+S	8	0.663	16.8	0.843	21.4	0.355	0.532	60	1.52
1827-612+S	12	0.772	19.6	0.952	24.2	0.522	0.782	60	1.52
1827-616+S	16	0.903	22.9	1.088	27.6	0.638	0.957	60	1.52
1827-624+S	24	1.059	26.9	1.250	31.8	0.911	1.366	70	1.78
1827-636+S	36	1.312	30.6	1.412	35.9	1.228	1.842	70	1.78
1828-604+S	4	0.533	13.5	0.693	17.6	0.267	0.399	50	1.27
1828-608+S	8	0.727	18.5	0.907	23.0	0.47	0.705	60	1.52
1828-612+S	12	0.913	23.2	1.093	27.9	0.63	0.944	60	1.52
1828-616+S	16	1.008	25.6	1.188	30.2	0.819	1.228	60	1.52
1828-624+S	24	1.231	31.3	1.431	36.3	1.128	1.691	70	1.78
1828-636+S	36	1.404	35.7	1.624	41.2	1.585	2.377	80	2.03

* Part numbers may change to 12 apply in case 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			
1	EX	Chromel	Constantan	Purple	Red	Purple	0 to +200°C	-1.7°C
2	JX	Iron	Constantan	White	Red	Black	0 to +200°C	+2.2°C
3	KX	Chromel	Alumel	Yellow	Red	Yellow	0 to +200°C	+2.2°C
4	SX	Copper	Copper-Alloy II	Black	Red	Green	0 to +200°C	+5.0°C
5	TX	Copper	Constantan	Blue	Red	Blue	-60 to +100°C	+1.0°C