

## DATA TWIST™ COLOUR CODE CHART: MODIFIED WESTERN ELECTRIC STANDARD

Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination
1	White/Blue Stripe	7	Red/Orange Stripe	13	Black/Green Stripe	19	Yellow/Brown Stripe	25	Purple/Grey Stripe
2	Blue/White Stripe	8	Orange/Red Stripe	14	Green/Black Stripe	20	Brown/Yellow Stripe	26	Grey/Purple Stripe
3	White/Orange Stripe	9	Red/Green Stripe	15	Black/Brown Stripe	21	Yellow/Grey Stripe	27	White & Blue
4	Orange/White Stripe	10	Green/Red Stripe	16	Brown/Black Stripe	22	Grey/Yellow Stripe	28	White & Orange
5	White/Green Stripe	11	Red/Brown Stripe	17	Black/Grey Stripe	23	Purple/Blue Stripe	29	White & Green
6	Green/White Stripe	12	Brown/Red Stripe	18	Grey/Black Stripe	24	Blue/Purple Stripe	30	White & Brown
			Red/Grey Stripe		Yellow/Blue Stripe		Purple/Orange Stripe	31	White & Grey
			Grey/Red Stripe		Blue/Yellow Stripe		Orange/Purple Stripe	32	Red & Blue
			Black/Blue Stripe		Yellow/Orange Stripe		Purple/Green Stripe	33	Red & Orange
			Blue/Black Stripe		Orange/Yellow Stripe		Green/Purple Stripe	34	Red & Green
			Black/Orange Stripe		Yellow/Green Stripe		Purple/Brown Stripe		Red & Brown
			Orange/Black Stripe		Green/Yellow Stripe		Brown/Purple Stripe		

## Hook-Up Wire

Description U.L. Style C.S.A. Type	Cat. No.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Available Colours See Colour Chart No. 10
		ft.	m			Inch	mm	Inch	mm	
<b>STYLE 1007 300V—80°C HOOK-UP WIRE—(CSA TYPE TR-64—90°C)</b>										
Tinned copper, PVC insulated. Rated -10°C to 105°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.	9918†	100 1000	30.5 304.8	.8 7.6	18 (16×30)	.016	.41	.079	2.01	1-5, 7-10, 13
1007 and 1569										
<b>STYLE 1015 600V—105°C HOOK-UP WIRE—(CSA TYPE TEW)</b>										
Tinned copper, PVC insulated. Rated -40°C to 105°C, 600V. Rated 2500V peak for electronic circuits, and internal wiring of electronic and electrical equipment.	9924†	100 1000	30.5 304.8	.6 5.3	24 (7×32)	.031	.79	.088	2.24	1-5, 9, 10, 13
	8920†	100 1000	30.5 304.8	.7 6.4	22 (7×30)	.031	.79	.93	2.36	1-5, 9, 10, 13
	8919†	100 1000	30.5 304.8	.8 7.8	20 (10×30)	.031	.79	.100	2.54	1-5, 9, 10, 13
	8918†	100 1000	30.5 304.8	1.0 10.3	18 (16×30)	.031	.79	.110	2.79	1-5, 9, 10, 13
	8917†	100 500 1000	30.5 152.4 304.8	1.7 7.4 14.3	16 (26×30)	.031	.79	.123	3.12	1-5, 9, 10, 13
	8916†	100 500	30.5 152.4	2.3 10.3	14 (41×30)	.031	.79	.138	3.51	1-5, 9, 10, 13
	9912†	100 250	30.5 76.2	3.1 7.5	12 (65×30)	.031	.79	.158	4.01	1-5, 9, 10, 13
	9910†	100 250	30.5 76.2	4.5 11.0	10 (65×28)	.031	.79	.183	4.65	2, 4, 9, 10
<b>STYLE 1028 600V—105°C HOOK-UP WIRE—(CSA TYPE TEW)</b>										
Tinned copper, PVC insulated.	9908†	100 250	30.5 76.2	7.4 18.4	8 (84×27)	.045	1.14	.250	6.35	2, 4, 9, 10
<b>STYLE 1061 300V—80°C HOOK-UP WIRE—(CSA TYPE T2)</b>										
Tinned copper, semi-rigid PVC insulated. (Solid conductors suitable for wire wrap applications.)	9978†	100 1000	30.5 304.8	.1 .8	30 (solid)	.010	.25	.030	.76	1-5, 7-10, 13
	9977†	100 1000	30.5 304.8	.1 1.0	28 (solid)	.010	.25	.033	.84	1-5, 7-10, 13
	9976†	100 1000	30.5 304.8	.2 1.6	26 (solid)	.010	.25	.036	.91	1-5, 7-10, 13
	9975†	100 1000	30.5 304.8	.2 2.2	24 (solid)	.010	.25	.040	1.02	1-5, 7-10, 13

† Passes VW-1 Vertical Wire Flame Test.

Description U.L. Style	Cat. No.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Available Colours See Colour Chart No. 10
		ft.	m			Inch	mm	Inch	mm	
<b>STYLE 1180 300V—200°C TEFLON HOOK-UP WIRE (TYPE EE)—MIL-W-16878E/5 TEFLON—1000V, 200°C</b>										
Stranded silver-coated copper conductor insulated with extruded TFE Teflon.	83023†	100♦	30.5	.4	24 (19×36)	.015	.38	.054	1.37	1-10
	83025†	100♦	30.5	.5	22 (7×30)	.015	.38	.060	1.52	1-7, 9, 10
	83026†	100♦	30.5	.4	22 (19×34)	.015	.38	.060	1.52	1-10
		500♦ 1000♦	152.4 304.8	2.5 4.6						
	83027†	100♦	30.5	.9	20 (19×32)	.015	.38	.068	1.73	1-10
		500♦ 1000♦	152.4 304.8	3.4 6.6						
	83028†	100♦	30.5	.9	20 (7×28)	.015	.38	.068	1.73	1-10
	83029†	100♦	30.5	1.1	18 (19×30)	.015	.38	.077	1.96	1-10
83030†	100♦	30.5	1.2	16 (19×29)	.015	.38	.088	2.24	1-10	

♦ DuPont trademark.

† Passes VW-1 Vertical Wire Flame Test.

♦ Spools may contain more than one piece. Length may vary ±10% from length shown.

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For complete product selection please contact your Electro Sonic sales representative.

Description U.L. Style	Cat. No.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Available Colours See Colour Chart No. 10	
		ft.	m			Inch	mm	Inch	mm		
<b>STYLE 1213 105°C—TEFLON HOOK-UP WIRE (TYPE E)—MIL-W-16878/4 TEFLON—600V, 200°C</b>											
Stranded silver-coated copper conductor insulated with extruded TFE Teflon.   <b>UL 1213</b>	83000†	100♦	30.5	.1	30 (7×38)	.010	.25	.032	.81	1-10	
	83001†	100♦	30.5	.1	28 (7×36)	.010	.25	.035	.89	1-10	
	83002†	100♦	30.5	.2	26 (7×34)	.010	.25	.039	.99	1-10	
	83003†	100♦ 500♦ 1000♦	30.5 152.4 304.8	.2 1.3 2.7	24 (19×36)	.010	.25	.044	1.12	1-10	
	83004†	100♦	30.5	.3	24 (7×32)	.010	.25	.044	1.12	1-10	
	83005†	100♦	30.5	.5	22 (7×30)	.010	.25	.050	1.27	1-10	
	83006†	100♦ 500♦ 1000♦	30.5 152.4 304.8	.5 2.1 3.7	22 (19×34)	.010	.25	.050	1.27	1-10	
	83007†	100♦ 500♦ 1000♦	30.5 152.4 304.8	.6 2.9 5.3	20 (19×32)	.010	.25	.058	1.47	1-10	
	83008†	100♦ 500♦	30.5 152.4	.6 2.8	20 (7×28)	.010	.25	.058	1.47	1-10	
<b>STYLE 1371 105°C—TEFLON HOOK-UP WIRE (TYPE E)—MIL-W-16878/4 TEFLON—600V, 200°C</b>											
Stranded silver-coated copper conductor insulated with extruded TFE Teflon.   <b>UL 1371</b>	83009†	100♦ 500♦ 1000♦	30.5 152.4 304.8	1.0 4.1 8.0	18 (19×30)	.011	.28	.069	1.75	1-10	
	83010†	100♦ 500♦	30.5 152.4	1.3 5.4	16 (19×29)	.012	.30	.080	2.03	1-10	
<b>TYPE MW—MIL-W-76-PVC—1000V—80°C</b>											
<b>Cover single conductor, PVC insulated hook-up wire for internal wiring of electrical and electronic equipment.</b>											
Tinned copper, PVC insulated, medium wall. The extruded PVC insulation is flame and ozone resistant and inert to most chemicals, oils, and solvents.   <b>UL 1371</b>	8538†	100 1000	30.5 304.8	.3 2.9	24 (solid) MW-C24 (1)U	.017	.43	.055	1.40	1-13	
	8525†	100 1000	30.5 304.8	.3 3.1	24 (7×32) MW-C24 (7)U	.017	.43	.058	1.47	1-13	
	8530†	25 100 1000	7.6 30.5 304.8	.1 .4 3.7	22 (solid) MW-C22 (1)U	.017	.43	.059	1.50	1-13	
	8524†	25 100 1000	7.6 30.5 304.8	.2 .4 4.1	22 (7×30) MW-C22 (7)U	.017	.43	.064	1.63	1-13(25) 1-13(100) 1-13(1000)	
	8529†	25 100 1000	7.6 30.5 304.8	.2 .5 5.2	20 (solid) MW-C20 (1)U	.017	.43	.066	1.68	1-10, 12, 13	
	8523†	25 100 1000	7.6 30.5 304.8	.2 .6 5.4	20 (10×30) MW-C20 (10)U	.017	.43	.070	1.78	1-10, 12, 13(25) 1-10, 12, 13(100) 1-10, 12, 13(1000)	
	8522†	25 100 1000	7.6 30.5 304.8	.2 .8 7.7	18 (16×30) MW-C18 (16)U	.017	.43	.080	2.03	1-13(25) 1-13(100) 1-13(1000)	
	8521†	100 1000	30.5 304.8	1.2 11.7	16 (26×30) MW-C16 (26)U	.019	.48	.098	2.49	1-22	
	8520†	100 1000	30.5 304.8	1.7 17.3	14 (41×30) MW-C14 (41)U	.018	.46	.111	2.82	1-11, 13(100) 1-11, 13(1000)	
	8527†	100 1000	30.5 304.8	2.8 25.0	12 (65×30) MW-C12 (65)U	.020	.51	.128	3.25	1-7, 9, 10(100) 1-10(1000)	
	<b>TYPE B—MIL-W-16878/I-PVC 600V, 105°C</b>										
	<b>Covers insulated wire for internal wiring of meters, panels, and electronic equipment. Temperature to 105°C.</b>										
	Tinned copper, PVC insulated.   <b>UL 1371</b>	8597†	100 1000	30.5 304.8	.2 1.1	28 (7×36) B-28	.010	.25	.035	.89	1-10
8505†		100 1000	30.5 304.8	.2 1.8	26 (7×34) B-26	.010	.25	.039	.99	1-10	
8504†		100 1000	30.5 304.8	.3 2.4	24 (7×32) B-24	.010	.25	.044	1.12	1-10	
8503†		100 1000	30.5 304.8	.4 3.3	22 (7×30) B-22	.010	.25	.050	1.27	1-10	
8502†		100 1000	30.5 304.8	.5 4.7	20 (7×28) B-20	.010	.25	.058	1.47	1-10	
8501†		100 1000	30.5 304.8	.7 7.0	18 (7×26) B-18	.010	.25	.068	1.73	1-10	
8500†		100 1000	30.5 304.8	1.0 9.3	16 (19×29) B-16	.010	.25	.077	1.96	1-10	

○ DuPont trademark.

† Passes VW-1 Vertical Wire Flame Test.

♦ Spools may contain more than one piece. Length may vary ±10% from length shown.

For complete product selection please contact your Electro Sonic sales representative.

## Kits Hook-Up Wire on Racks




No. of Spools	Cat. No.	Spool Lengths		Std. Unit Lbs. ea	Type of Wire	Colours in Kit
		ft.	m			
8	8816† 80°C	25	7.6	2.5	18 (16×30) Tinned PVC (8522-25)	1, 2, 3, 4, 5, 6, 9, 10
8	8824† 80°C	25	7.6	1.8	20 (10×30) Tinned PVC (8523-25)	1, 2, 3, 4, 5, 6, 9, 10
5	8825† 105°C	100	30.5	3.0	20 (7×28) Tinned PVC (8502-100)	2, 4, 5, 9, 10
5	9531† 80°C	100	30.5	2.8	22 (7×30) Tinned PVC (8524-100)	2, 5, 6, 9, 10

†Passes VW-1 Vertical Wire Flame Test.

R and D Labs... Engineers... Servicemen... Hobbyists, Specify Trade Number **8800** for Rack only.

Stock Colours: 1. Brown 2. Red 3. Orange 4. Yellow 5. Green 6. Light Blue 7. Violet (purple) 8. Grey (slate) 9. White 10. Black.

## High-Temperature Teflon® Wire

Description U.L. Style	Cat. No.	Standard Lengths		Std. Unit Lbs. ea.	AWG (stranding)	Insulation Thickness		Nominal O.D.		Available Colours See Colour Chart No. 10
		ft.	m			Inch	mm	Inch.	mm	
<b>STYLE 1371 105°C—TEFLON HOOK-UP WIRE (TYPE ET)—MIL-W-16878/6 TEFLON—250V, 200°C</b>										
Stranded silver-coated copper conductor insulated with extruded TFE Teflon.   1371	83043†	100♦	30.5	.2	30 (7×38)	.006	.15	.024	.61	2, 5, 7-10
	83045†	100♦	30.5	.2	28 (7×36)	.006	.15	.027	.69	1, 2, 5, 6, 9, 10
	83046†	100♦ 1000♦	30.5 304.8	.3 1.6	26 (7×34)	.006	.15	.031	.79	1-4, 6-9 (100) 1-4, 6-10 (1000)
	83047†	100♦ 1000♦	30.5 304.8	.3 2.2	24 (7×32)	.006	.15	.036	.91	6, 8-10 (100) 2, 6, 8-10 (1000)
	83048†	100♦ 1000♦	30.5 304.8	.3 2.2	24 (19×36)	.006	.15	.036	.91	1-3, 5, 7, 8, 10
	83049†	100♦	30.5	.4	22 (7×30)	.006	.15	.042	1.07	1-10
	83050†	100♦	30.5	.4	22 (19×34)	.006	.15	.042	1.07	1-3, 5-9




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†Passes VW-1 Vertical Wire Flame Test.

♦Spools may contain more than one piece. Length may vary ±10% from length shown.

## Multi-Conductor Unshielded Cables

### AUDIO AND CONTROL CABLES




Description U.L. Style	Cat. No.	No. of Cond.	Standard Lengths		Std. Unit Lbs. ea.	Insulation Thickness		Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm	Inch	mm
<b>22 GAUGE—SOLID CONDUCTORS—POLYETHYLENE INSULATED</b>											
<b>Bare copper, polyethylene insulated, conductors cabled. Rose Grey PVC jacket.</b>											
 2093 300V 60°C	8794	3	1000	304.8	21.3	.018	.46	.022	.56	.178	4.52
	NEC CM FT 4					Colour code: Green, Red, Yellow.					
 2094 300V 60°C	9794	4	500 1000	152.4 304.8	10.5 19.0	.018	.46	.025	.64	.200	5.08
	NEC CM FT 1					Colour code: Green, Red, Yellow, Black.					
<b>22 GAUGE—SOLID CONDUCTORS—POLYETHYLENE INSULATED</b>											
<b>Bare Copper, Polyethylene Insulated, Conductors Cabled. Rose Grey PVC jacket. Colour code: Red, Green.</b>											
	8795	2	500 1000	152.5 304.8	9.4 18.0	.018	.46	.022	.56	.168	4.27
	NEC CM FT 1										

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For complete product selection please contact your Electro Sonic sales representative.

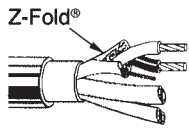
## AUDIO, CONTROL AND INSTRUMENTATION CABLES

### FOR EIA RS-232 APPLICATIONS

Description U.L. Style	Cat. No.	No. of Cond.	Standard Lengths		Std. Unit Lbs. ea	Insulation Thickness		Jacket Thickness		Nominal O.D.	
			ft.	m		Inch	mm	Inch	mm	Inch	mm
<b>22 GAUGE—STRANDED CONDUCTORS (7 × 30)—PVC INSULATED</b>											
<b>Tinned copper, PVC insulated, twisted pair, PVC jacket. colour code: black, red.</b>											
	8442	2	100	30.5	1.8	.015	.38	.025	.64	.170	4.32
	NEC CMG FT 4		500 1000	152.4 304.8	7.4 15.4						
<b>For Plenum version, see 88442.</b> Colour code: Black, Red, Chrome jacket.											
<b>22 GAUGE—STRANDED CONDUCTORS (7 × 30)—PVC INSULATED</b>											
<b>Tinned copper, PVC insulated, conductors cabled, Chrome PVC jacket.</b>											
  	8443	3	100	30.5	2.1	.010	.25	.032	.81	.172	4.37
	NEC CMG CSA PCC FT4		500 1000	U-152.4 U-304.8	9.0 17.5	Colour code: Black, Red, Green.					
	8444	4	100	30.5	2.4	.010	.25	.032	.81	.185	4.70
	NEC CMG CSA PCC FT4		250 500 1000	76.2 U-152.4 U-304.8	5.8 11.2 21.5	Colour code chart No. 1. <b>For Plenum version, see 88444.</b>					
	8445	5	100	30.5	2.8	.010	.25	.032	.81	.194	4.93
	NEC CMG CSA PCC FT4		250 500 1000	76.2 U-152.4 U-304.8	6.7 12.6 25.1	Colour code chart No. 1.					
	9430	7	500	U-152.4	16.6	.010	.25	.032	.81	.214	5.44
	NEC CMG CSA PCC FT4		1000	U-304.8	32.2	Colour code chart No. 1.					
	9421	8	100	30.5	4.1	.010	.25	.032	.81	.229	5.82
	NEC CMG CSA PCC FT4		500 1000	U-152.4 U-304.8	18.5 36.1	Colour code chart No. 1.					
	9423	9	100	30.5	4.5	.010	.25	.032	.81	.244	6.20
	NEC CMG CSA PCC FT4		500 1000	U-152.4 U-304.8	21.0 41.0	Colour code chart No. 1.					
	8456	10	100	30.5	5.1	.010	.25	.032	.81	.264	6.71
	NEC CMG CSA PCC FT4		500 1000	U-152.4 U-304.8	22.9 48.9	Colour code chart No. 1.					
	8457	12	100	30.5	5.6	.010	.25	.032	.81	.272	6.91
NEC CMG CSA PCC FT4		500 1000	U-152.4 U-304.8	25.6 54.2	Colour code chart No. 1.						
8458	15	100	30.5	7.8	.010	.25	.040	1.02	.315	8.00	
NEC CMG CSA PCC FT4		500 1000	152.4 304.8	34.2 71.9	Colour code chart No. 2R.						
9431	20	100	30.5	9.0	.010	.25	.040	1.02	.345	8.76	
NEC CMG CSA PCC FT4		500 1000	152.4 304.84	43.7 90.9	Colour code chart No. 2R.						
8459	25	100	30.5	10.9	.010	.25	.040	1.02	.387	9.83	
NEC CMG CSA PCC FT4		500 1000	152.4 304.8	53.1 106.2	Colour code chart No. 2R.						

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For complete product selection please contact your Electro Sonic sales representative.

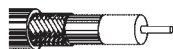
Description U.L. Style	Cat. No.	No. of Pairs	Standard Lengths		Std. Unit Lbs. ea.	Nominal D.C.R.		Nominal O.D.		Nominal Capacitance			
			ft.	m		Cond.	Shield	Inch	mm	* pF/ft.	* pF/m	** pF/ft.	** pF/m
<b>22 GAUGE—TEFLON CONDUCTORS (7 × 30)—TEFLON INSULATED</b>													
<b>Tinned copper, twisted pair. Each pair individually shielded with Beldfoil aluminum-polyester shield. Pairs cabled on common axis to reduce diameter. 300V RMS.</b>													
 100% Shield Coverage 200°C Non-conduit	88777	3	100	30.4	6.4	22 (7 × 30)	Beldfoil	.226	5.84	28	92	53	174
	NEC CMP CSA PCC FT4 FT6		500 ♦ 1000 ♦	152.4 304.8	28.7 51.3	15Ω/M' 49.2Ω/km	11.3Ω/M' 37.1Ω/km	Teflon insulated. 22 AWG stranded tinned copper drain wire. Red Transparent Teflon jacket. Colour code: Black/Red, Black/White, Black/Green.					

\*Capacitance between conductors

\*\*Capacitance between one conductor and other conductors connected to shield.

## CATV Cable

Belden coaxial cables meet the highest standards of quality control in the industry. Because cable performance and reliability are of such critical importance to CATV sys-



DUOBOND® II/BRAID

tem, performance test procedures are strict and uncompromising. All Belden coaxial drop cables are 100% sweep tested from 5 to 450 MHz with a minimum structural return loss of 23 dB.

Duobond II plus Braid has proved to be an economical solution to many CATV installation problems—even in high-density metropolitan areas. The aluminum-polyester-aluminum foil is bonded directly to the cellular polyethylene cord and provides 100% coverage, seals out moisture and assures easier, more reliable connector installation.

### BELDEN CATV CABLE

Cat. No.	Cat. No.	AWG (Stranding) & Material	Insulation Nom. Core O.D.	Shield Material	Jacket	Nom. O.D.	Nom. Imp. Ohms	Nom. Vel. of Prop.	Nom. Cap. pF/ft.	Feet	Jacket Colour	Net Price
<b>59/U TYPE</b>												
9104-10-U1000	9104	20 (solid)	Cellular Polyethylene	DUOBOND II + 67% aluminum braid	PVC	.242	75	78%	17.3	U1000 (Unreel)	Black Beige	\$124.25
9104-999-U1000		.032 Copper covered steel	.146									115.50
<b>6/U TYPE</b>												
9116-10-U1000	9116	18 (solid)	Cellular Polyethylene	DUOBOND II + 61% aluminum braid	PVC	.275	75	78%	17.3	U1000 (Unreel)	Black Beige	136.14
9116-290-U1000		.0375 Copper covered steel	.180									86.44
<b>11/U TYPE</b>												
9064-10-1000	9064	14 (solid)	Cellular Polyethylene	DUOBOND PLUS (Duobond II + 77% al. braid + al. foil w/shrt. fold)	PVC	.405	75	78%	17.3	1000	Black	210.00
	NEC CATV CL2 CSA CXCF1	.064 Copper covered steel	.285									

For complete product selection please contact your Electro Sonic sales representative.