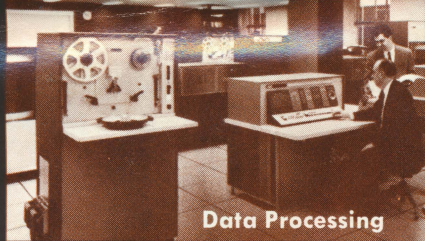
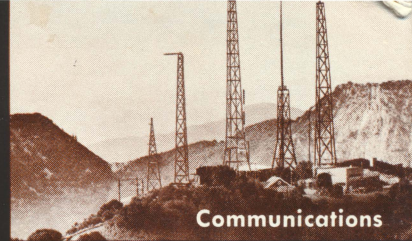


Radio and Television



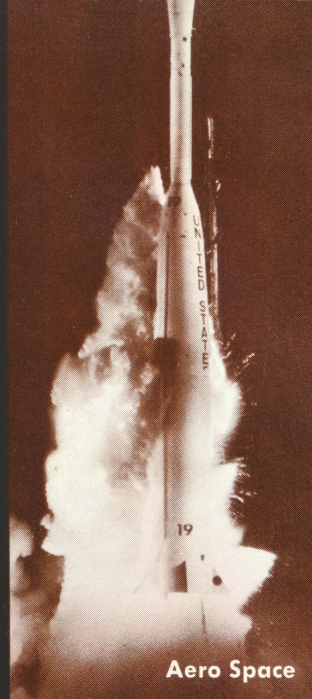
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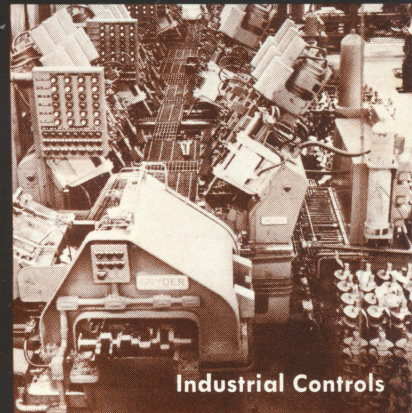
Communications



Sound Systems



Aero Space



Industrial Controls

Belden
electronic
wire / CATALOG NO.
864

Belden

electronic wire

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Belden

BELDFOIL^{††} The Total Shield

Since Belden introduced Beldfoil in 1957, this 100% shield has won the reputation as "The Total Shield."

For critically sensitive circuit applications the combination of 100% shield coverage and the exclusive Belden fold (U.S. Patent 3,032,604) proves superior to previously available shields in guarding against cross talk and spurious signal impulses.

The benefits of Beldfoil include:

- 1) Increased electrical integrity.
- 2) Reduction of cross talk to unmeasurable levels.
- 3) Reduced weight and space requirements.
- 4) Easier and faster shield terminations.
- 5) Reduced costs.

The basic Beldfoil tape is .00035" thick rolled aluminum foil per ASTM B373-61T laminated to a .0005" thick sheet of high dielectric strength DuPont Mylar[‡] per MIL-I-631D, Type G, Form F, by means of a high strength color code adhesive for circuit identification.

The exclusive Belden fold is used in several ways to give added value to the cable:

Outer edge of Mylar Foil Tape folded in

Drain Wire

Enlarged Cross Section

8766 contains this type of shield

For multi-pair cables with each pair separately shielded the Beldfoil tape is applied Mylar side out with the outer edge folded under to obtain isolation between shields of adjacent pairs. The fold eliminates current loops caused by random metallic contact between shields.

Outer edge of Mylar Foil Tape folded in

Drain Wire

Inner edge of Mylar Foil Tape folded out

Enlarged Cross Section

8774 utilizes the "Z" fold for maximum shield effectiveness at radio frequencies

Single conductors and paired conductors requiring minimum shield inductance have the Beldfoil shield applied with a "Z" fold. The additional fold on the inner tape edge provides a continuous metallic path around the circumference of the cable. This is electrically equivalent to a solid aluminum tube but retains the flexibility of a spiral tape.

Foil Side Out

Drain Wire

Enlarged Cross Section

8451 contains this type of shield

In single pair cables isolation is not a factor so the high dielectric strength of the Mylar is used between the conductors and the shield as "bonus" insulation with the metal edge folded under the Mylar to insure a full layer of extra protection.













All Beldfoil shields include a drain wire for ease of termination. This drain wire is in intimate contact with the foil throughout the length of the cable.

^{††}Belden trademark—Reg. U.S. Pat. Off.

[‡]Du Pont trademark

TAN HORIZONTAL PANEL INDICATES THAT THE BELDFOIL SHIELDED CABLES ARE ALSO RECOMMENDED FOR INSTRUMENTATION APPLICATIONS

TWO CONDUCTOR SHIELDED CABLES

Description	Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Cond. Color Coding	Percent Shield Coverage	Nom. *Cap. (mmf. ft)	Nom. **Cap. (mmf. ft)	Suggested Working Voltage	Standard Spool Lengths in ft
 With JACKET	8640	26 (Solid)	.002	.020	.089	Red, Clear	100	80	140	100	250, 500
 BELDFOIL [⊖]	Solid copper, BELDSOL ^{††} (solderable—no stripping required) insulated BELDFOIL aluminum-Mylar shield, 30 AWG solid tinned Copperweld [▲] ground drain wire, WHITE vinyl jacket. Maximum operating temperature 105°C. Ideal for Instrumentation and Audio Console Work where Subminiaturization is Required.										
	8450	22 (Solid)	.006	.018	.118	Blk, Red	100	40	76	200	100, 500, 1000
	8451	22 (7x30)	.008	.020	.135	Blk, Red	100	34	67	200	100, 500, 1000
 BELDFOIL [⊖] Miniature Broadcast Audio Cable	Tinned copper, Polypropylene insulated, conductors cabled, stranded tinned copper ground drain wire, BELDFOIL aluminum-Mylar shield, paper wrap, BLACK or GRAY vinyl jacket. Belden's Miniature Type Broadcast Audio Cable occupies 1/2 to 2/3 less space than required by Standard Broadcast Audio Cables. The Beldfoil Shield combines high cable reliability with ease of termination.										
	8761	22 (7x30)	.014	.025	.167	Blk, Wht	100	24	47	350	500, 1000
	8762	20 (7x28)	.014	.028	.196	Blk, Wht	100	27	49	350	100, 500, 1000
	8760	18 (16x30)	.018	.028	.222	Blk, Wht	100	24	44	450	500, 1000
	NEW 8719	16 (19x29)	.025	.030	.274	Blk, Wht	100	24	47	600	500, 1000
	NEW 8720	14 (19x27)	.032	.035	.340	Blk, Wht	100	24	47	750	500, 1000
Tinned copper polyethylene insulated, BELDFOIL aluminum-Mylar shield, stranded tinned copper ground drain wire, (22 AWG for 8761, and 20 AWG for 8760 and 8762, 18 AWG for 8719, 16 AWG for 8720), chrome vinyl jacket.											
	8739	22 (Solid)	.015	.025	.160	Blk, Red	94.0	38	66	350	100, 500, 1000
	8737	22 (7x30)	.015	.025	.170	Blk, Red	89.3	40	70	350	100, 500, 1000
	8759	20 (7x28)	.015	.025	.195	Blk, Red	81.0	47	79	350	100, 500, 1000
	8790	18 (7x26)	.020	.028	.231	Red, Wht	76.5	53	92	450	100, 500, 1000
	8780	16 (19x29)	.023	.030	.266	Blk, Wht	84.1	57	98	450	100, 500, 1000
Tinned copper, vinyl insulated, tinned copper spiral wrapped shield, chrome vinyl jacket.											
 NEW 8390 High Temperature	Stranded tinned copper, FEP teflon [■] insulated, cabled tinned copper braid shield, white FEP teflon jacket. 200°C maximum operating temperature										
	8208	18 (16x30)	.020	.025	.255	Red, Wht	69	46	77	200	100, 500, 1000
	Tinned copper, rubber insulated, braided tinned copper shield, chrome vinyl jacket.										
	8436	22 (Solid)	.016	.025	.190	Blk, Red	89.3	31	52	100	500, 1000
	Tinned copper, Celanese [†] wrap, Celanese braid lacquered, conductors cabled, solid tinned copper drain wire, tinned copper spiral wrapped shield, black vinyl jacket.										
	8437	22 (Solid)	.015	.025	.200	Blk, Red	88	48	85	200	500, 1000
	8441	22 (16x34)	.015	.025	.210	Blk, Red	88	49	86	200	100, 500, 1000
Tinned copper, vinyl insulated, conductors cabled, solid tinned copper drain wire, tinned copper braid shield, black vinyl jacket.											
 With Cotton Braid	8209	18 (16x30)	.020	—	.258	Red, Wht	69	51	89	200	500, 1000
Tinned copper, rubber insulated, braided tinned copper shield, white cotton braid, treated for weather resistance.											
	8738	22 (Solid)	.015	—	.130	Blk, Red	72.8	35	61	350	1000
	8758	20 (7x28)	.015	—	.165	Blk, Red	63.8	42	72	350	100, 500, 1000
	8789	18 (7x26)	.020	—	.204	Blk, Wht	74	50	89	450	500, 1000
	8779	16 (19x29)	.023	—	.225	Blk, Wht	83	63	112	600	500, 1000
Tinned copper, vinyl insulated, braided tinned copper shield.											

*Capacitance between conductors.

[⊖]Belden U.S. Patent 3,032,604.

^{††}Belden trademark—Reg. U.S. Pat. Off.

**Capacitance between 1 conductor and other conductor connected to shield.

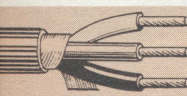


[†]Trademark of Celanese Corp.

[▲]Trademark of Copperweld Steel Co.


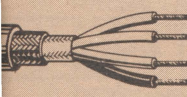


[■]DuPont Tradename for fluorocarbon resins.

TAN HORIZONTAL PANEL INDICATES THAT THE BELDFOIL SHIELDED CABLES ARE ALSO RECOMMENDED FOR INSTRUMENTATION APPLICATIONS



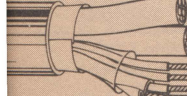
THREE CONDUCTOR SHIELDED

Description	Trade Number	AWG & (Stranding)	Insulation Thickness ¹ (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Cond. Color Coding	Percent Shield Coverage	Nom. *Cap. (mmf/ft)	Nom. **Cap. (mmf/ft)	Suggested Working Voltage	Standard Spool Lengths in ft
	8731	22 (Solid)	.015	.025	.178	Blk, Red, Wht	76.2	36	63	350	500, 1000
	8791	18 (7x26)	.020	.028	.236	Blk, Red, Wht	78.2	47	84	450	100, 500, 1000
<i>Tinned copper, vinyl insulated, conductors cabled, tinned copper spiral wrapped shield, chrome vinyl jacket.</i>											
	8771	22 (7x30)	.014	.025	.175	Blk, Red, Wht	100	23	41	350	500, 1000
	8772	20 (7x28)	.014	.028	.200	Blk, Red, Wht	100	27	51	350	500, 1000
	8770	18 (16x30)	.018	.028	.236	Blk, Red, Wht	100	24	48	450	500, 1000
<i>Tinned copper, polyethylene insulated, conductors cabled, BELDFOIL aluminum-Mylar shield, stranded tinned copper ground drain wire (22 AWG for 8771, and 20 AWG for 8770 and 8772), chrome vinyl jacket.</i>											
	8735	22 (7x30)	.015	.025	.199	Blk, Red, Wht	70	34	60	350	15, 50, 100, 500, 1000
	NEW 8391	22 (19x34)	.015	.015	.190	Blk, Red, Wht	90	20	35	1000	25, 100, 500
<i>Tinned copper, vinyl insulated, conductors cabled, tinned copper braid shield, chrome vinyl jacket.</i>											
HIGH TEMPERATURE <i>Stranded tinned copper, FEP teflon insulated, cabled, tinned copper braid shield, white FEP teflon jacket. 200°C maximum operating temperature.</i>											

QUADS AND MULTIPLE QUADS STRAIN GAUGE CABLES

Description	Trade Number	No. of Cond.	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Cond. Color Coding	Percent Shield Coverage	Nom. *Cap. (mmf/ft)	Nom. **Cap. (mmf/ft)	Suggested Working Voltage	Standard Spool Lengths in ft
	8434	4	25 (7x33) 3 copper 4 copper-weld	.013	.020	.179	Red, Blk, Grn, Wht	100	25	40	400	100, 500, 1000
	<i>Tinned copper, polyethylene insulated, black and red conductors under BELDFOIL aluminum-Mylar shield, stranded ground wire, green and white conductors under over-all BELDFOIL aluminum-Mylar shield, chrome vinyl jacket.</i>											
	8723	4	22 (7x30) copper	.008	.019	.165	Red, Blk, Grn, Wht	100	35	62	400	100, 500, 1000
	<i>Tinned copper, polypropylene insulated, black and red under a BELDFOIL aluminum-Mylar shield. Green and white under a BELDFOIL aluminum-Mylar shield, each pair separate, stranded tinned copper drain wire, chrome vinyl jacket.</i>											
	8404	4	20 (26x34)	.015	.033	.255	Red, Blk, Grn, Wht	87	25	45	600	15, 100, 250, 500, 1000
	8407	4	16 (65x34)	.032	.043	.422	Red, Blk, Grn, Wht	84	37	65	600	100, 250
<i>Tinned copper, separator, rubber insulated, cabled, rayon braid, tinned copper braid shield, cotton wrap, black neoprene jacket.</i>												
	8424	4	20 (26x34)	.020	.040	.295	Red, Blk, Grn, Wht	83.5	55	95	600	15, 50, 100, 250, 500, 1000
	NEW 8392	4	22 (19x34)	.015	.015	.205	Red, Blk, Grn, Wht	90	20	35	1000	25, 100, 500
<i>Tinned copper, cotton wrap, rubber insulated, rayon braid, tinned copper braid shield, cotton wrap, black rubber jacket.</i>												
HIGH TEMPERATURE <i>Stranded tinned copper, FEP teflon insulated, cabled, tinned copper braid shield, white FEP teflon jacket. 200°C maximum operating temperature.</i>												

AUDIO AND SOUND CABLES




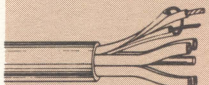
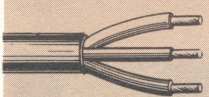

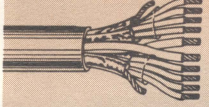
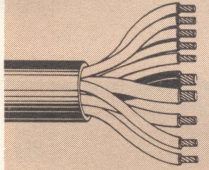
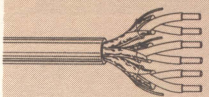

	8724	2 shielded 2 unshielded	22 (7x30) 22 (7x30)	.008 .008	.019	.165	Red, Blk, Grn, Wht	100	34	67	200	500, 1000
	8722	2 shielded 2 unshielded	20 (7x28) 20 (7x28)	.015 .015	.028	.260	Red, Blk, Grn, Wht	100	60	99	350	500, 1000
<i>Tinned copper, 8722 vinyl insulated, 8724 polypropylene insulated, BELDFOIL aluminum-Mylar shield over 2 conductors, stranded tinned copper ground drain wire (22 AWG for 8722 and 24 AWG for 8724), chrome vinyl jacket.</i>												
	8732	2 shielded 2 unshielded	22 (7x30) 22 (7x30)	.015 .015	.030	188x.296 Blk, Wht	Blk, Wht	62	21	37	350	100, 500, 1000
	<i>Tinned copper, polyethylene insulated, tinned copper braid shield over 2 conductors, chrome vinyl jacket.</i>											
	NEW 8726	12	22 (7x30)	.008	.035	.330	Red, Blk, Grn, Wht	100	34	67	200	100, 500, 1000
	NEW 8727	28	22 (7x30)	.008	.040	.450	Red, Blk, Grn, Wht	100	34	67	200	100, 500, 1000

22 AWG tinned copper, polypropylene insulation, cabled in quads, BELDFOIL shield over black and red conductors, 24 AWG stranded tinned copper ground drain wire. clear Mylar tape over entire quad, shields color coded, chrome vinyl jacket.

©Belden U.S. Patent 3,032,604

TAN HORIZONTAL PANEL INDICATES THAT THE BELDFOIL SHIELDED CABLES ARE ALSO RECOMMENDED FOR INSTRUMENTATION APPLICATIONS

SPECIAL AUDIO AND SOUND CABLES

Description	Trade Number	No. of Cond.	AWG & (Stranding)	Cond. Color Coding	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Percent Shield Coverage	Suggested Working Voltage	Nom. *Cap. (mmf. ft)	Nom. **Cap. (mmf. ft)	Standard Spool Lengths in ft
	8734	1 shielded 2 unshielded	22 (7x30) 22 (7x30)	Wht Blk, Red	.015 .015	.025	.194	82	350	—	79	100, 500, 1000
Tinned copper, vinyl insulated, tinned copper braid shield over 1 conductor, 3 conductors cabled, chrome vinyl jacket.												
	8763	2 shielded 1 unshielded	20 (7x28) 20 (7x28)	Blk, Red Wht	.014 .014	.028	.210	100	350	26	48	500, 1000
Tinned copper, polyethylene insulated, BELDFOIL aluminum-Mylar shield over 2 conductors, #20 stranded tinned copper ground drain wire, chrome vinyl jacket.												
	8733	3 shielded	22 (7x30)	Blk, Red, White	.014	.030	.205	100	350	—	51	100, 500, 1000
Tinned copper, polyethylene insulated, each conductor separately BELDFOIL aluminum-Mylar shielded. Ground wire for each conductor is tinned cadmium bronze ribbon under BELDFOIL "Z" fold, chrome vinyl jacket.												
	8788	3 shielded 2 unshielded	22 (7x30)	Blk, Red, Grn, Yel, Blue	.015	.028	.236	100	350	—	125	500
Tinned copper, vinyl insulated, 3 conductors each separately BELDFOIL shielded, ground drain wire for each conductor is tinned cadmium bronze ribbon under BELDFOIL "Z" fold, 2 conductors unshielded, cabled around a vinyl filler, chrome vinyl jacket.												
	8783	3 (3 unshielded)	1-20 (10x30) 2-16 (26x30)	Blue, Grn, Org	.020 .020	.025	.250	—	450	—	—	100, 500
Tinned copper, vinyl insulated, conductors cabled, chrome vinyl jacket.												
	8786	6 (2 unshielded) (4 shielded)	22 (7x30) 24 (7x32)	Blu, Wht Blk, Grn, Red, Yel	.015 .015	.028	.256	100	350	—	—	100, 500
Tinned copper, vinyl insulated, 4 conductors twisted under BELDFOIL aluminum-Mylar shield, 2 conductors unshielded, 22 AWG drain wire, chrome vinyl jacket.												
	8787	10 (4 shielded) (4 shielded) (2 unshielded)	24 (7x32) 24 (7x32) 22 (7x30)	Gry, Wht, Blu, Grn Red, Brn, Yel, Org Wht, Blu	.012 .012 .015	.030	.290	100	350	—	—	500
Tinned copper, 22 AWG conductors vinyl insulated, 24 AWG conductors polyethylene insulated, cabled in 2 quads, each with transparent Mylar tape wrap, 24 AWG tinned copper ground wire. Red BELDFOIL shield over one quad, green BELDFOIL shield over the other quad; plus 2 unshielded conductors, chrome vinyl jacket.												
	8784	10 (10 unshielded)	2-16 (26x30) 1-20 (10x30) 7-22 (7x30)	Blk, Wht Gray Red, Grn, Org, Yel, Blu, Purple Brown	.016 .018 .013	.040	.295	—	300	—	—	500
Tinned copper, vinyl insulated, conductors cabled vinyl jacket.												
	8640	2	26 (Solid) 1 Pair	Red, Clear	.002	.020	.089	100	100	80	140	250, 500
	8642	6	26 (Solid) 3 Pair	Red, Clear	.002	.025	.140	100	100	80	140	250, 500

BELDFOIL[®]

Solid copper, BELDSOL^{††} (solderable—no stripping required), BELDFOIL aluminum-Mylar shield on each pair, red, brown, orange textile marker and isolating Mylar tape for each pair on 8642, Copperweld ground drain wire, WHITE vinyl jacket.

Ideal for instrumentation and audio console work where subminiaturization is required.

105°C maximum operating temperature.

[®]Belden U.S. Patent 3,032,604.


^{††}Belden Trademark—Reg. U.S. Pat. Off.

COLOR CODING FOR PAIRED CABLES

TAN HORIZONTAL PANEL INDICATES THAT THE BELDFOIL SHIELDED CABLES ARE ALSO RECOMMENDED FOR INSTRUMENTATION APPLICATIONS

Pair Number	Color Combination	Pair Number	Color Combination	Pair Number	Color Combination
1	Black paired with Red	10	Red paired with Blue	19	White paired with Blue
2	Black paired with White	11	Red paired with Yellow	20	White paired with Yellow
3	Black paired with Green	12	Red paired with Brown	21	White paired with Brown
4	Black paired with Blue	13	Red paired with Orange	22	White paired with Orange
5	Black paired with Yellow	14	Green paired with White	23	Blue paired with Yellow
6	Black paired with Brown	15	Green paired with Blue	24	Blue paired with Brown
7	Black paired with Orange	16	Green paired with Yellow	25	Blue paired with Orange
8	Red paired with White	17	Green paired with Brown	26	Brown paired with Yellow
9	Red paired with Green	18	Green paired with Orange	27	Brown paired with Orange

MULTIPLE PAIR INDIVIDUALLY SHIELDED AUDIO AND SOUND CABLES

Description	Trade Number	No. of Pairs	Stranding	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Nom. *Cap. (mmf ft)	Nom. **Cap. (mmf /ft)	Standard Spool Lengths in ft
 22 GAUGE VINYL INSULATION	8767	3	Solid	.013	.030	.270	40	77	100, 500, 1000
	8768	6	Solid	.013	.037	.394	40	77	100, 500, 1000
	8764	9	Solid	.013	.040	.425	40	77	100, 500, 1000
	8765	11	Solid	.013	.040	.485	40	77	100, 500, 1000
	8766	15	Solid	.013	.045	.510	40	77	100, 500, 1000

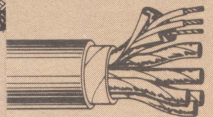
#22 tinned copper, vinyl insulated, cabled in pairs, each pair and its ground wire under BELDFOIL aluminum-Mylar shield, over-all chrome vinyl jacket. 300 Volts suggested working voltage.

Insulation resistance between shields.....100 megohms/M'
 Capacitance between adjacent shields.....115 mmf/ft
 Voltage breakdown between adjacent shields.....1500 volts
 Working voltage between adjacent shields.....50 volts

Vinyl insulation is used for ease of stripping and soldering. Recommended for audio frequency applications requiring excellent circuit isolation. Maximum operating temperature 80°C.

BELDFOIL[®]

MULTIPLE PAIR INDIVIDUALLY SHIELDED AUDIO AND DATA CABLES

Description	Trade Number	No. of Pairs	Stranding	Insulation Thickness (Inch)	Jacket Thickness (inch)	Nom. O.D. (Inch)	Nom. *Cap. (mmf ft)	Nom. **Cap. (mmf /ft)	Standard Spool Lengths in ft
 22 GAUGE POLYPROPYLENE INSULATION	8777	3	(7x30)	.010	.030	.270	30	55	100, 500, 1000
	8778	6	(7x30)	.010	.037	.394	30	55	100, 500, 1000
	8774	9	(7x30)	.010	.040	.425	30	55	100, 500, 1000
	8775	11	(7x30)	.010	.040	.485	30	55	100, 500, 1000
	8776	15	(7x30)	.010	.045	.510	30	55	100, 500, 1000
	8769	19	(7x30)	.010	.055	.620	30	55	100, 500, 1000
	8773	27	(7x30)	.010	.070	.760	30	55	§Cut to customer's specified length. Maximum length 1000

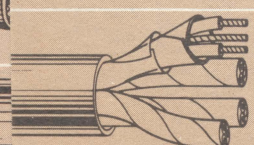
#22 gauge tinned copper, polypropylene insulated, cabled in pairs, each pair and its ground wire under "Z" fold BELDFOIL aluminum-Mylar shield, over-all chrome vinyl jacket. 300 volts suggested working voltage.

Insulation resistance between shields.....100 megohms/M'
 Capacitance between adjacent shields.....115 mmf/ft
 Voltage breakdown between adjacent shields.....1500 volts
 Working voltage between adjacent shields.....50 volts

Recommended for audio, pulse, and radio frequency applications requiring superior circuit isolation. Polypropylene insulation is used for excellent high frequency properties and mechanical toughness. Maximum operating temperature 105°C.

BELDFOIL[®]

SPECIAL INSTRUMENTATION CABLES

Description	Trade Number	AWG & (Standing)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Cond. Color Coding	Percent Shield Coverage	Nom. *Cap. (mmf ft)	Nom. **Cap. (mmf /ft)	Suggested Working Voltage	Standard Spool Lengths in ft
 BELDFOIL [®]	8700	28 (Solid) Coaxial	.005	.008	.054	Black	80	48	—	100	25, 50, 100, 250
	Solid tinned copper, polypropylene insulation, copper braid, black vinyl jacket. May be steam sterilized for medical research.										
	NEW 8725	4 pairs 20 (7x28)	.015	.030	.360	Red, Blk Grn, Wht Wht/Red Wht/Blk Wht/Grn Wht/Yel	100	27	49	400	500 1000

Tinned copper conductors, Polypropylene insulated, four groups of two conductors with #22 AWG drain wire. Each group individually BELDFOIL shielded with Mylar tape wrap, chrome vinyl jacket. 105°C Maximum operating temperature.

*Capacitance between conductors.
 **Capacitance between 1 conductor and other conductor connected to shield.

©Belden U.S. Patent 3,032,604.


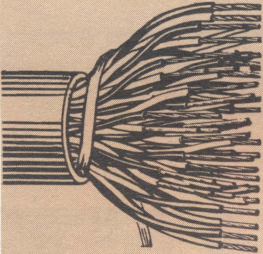
§Minimum length 25'
 25' to 199', plus 25', minus 0.
 200' or over, plus 50', minus 0.

MULTIPLE PAIR UNSHIELDED SOUND CABLES

TYPICAL APPLICATIONS: Balanced line sound systems.


diameter, and tear resistance. It also resists the effects of water, sun, oil, grease, and ozone. The conductors are paired with a short-layer twist for conductor balance, providing a quiet circuit, free from cross talk.

Made with 80°C vinyl plastic compounds for high dielectric strength and the best physical properties, such as free stripping, small

1 to 27 Pairs	Trade Number	No. of Pairs	AWG & Stranding	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Suggested Working Voltage	Standard Spool Lengths in ft
<p>ALL CONSTRUCTIONS: Tinned copper, vinyl insulated cabled in pairs, chrome vinyl jacket.</p>  	8740	1	22 Solid	.015	.025	.150	200	100, 500, 1000
	8741	2	22 Solid	.015	.028	.201	200	100, 500, 1000
	8742	3	22 Solid	.015	.030	.240	200	100, 500, 1000
	NEW 8690	3	18 (16x30)	.018	.037	.362	400	100, 500, 1000
	8757	4	22 Solid	.015	.030	.255	200	500, 1000
	8743	6	22 Solid	.010	.035	.305	200	100, 500, 1000
	8747	6	22 (7x30)	.010	.035	.340	200	100, 500, 1000
	NEW 8691	6	18 (16x30)	.018	.045	.550	400	100, 500, 1000
	8744	9	22 Solid	.010	.037	.354	200	100, 500, 1000
	8748	9	22 (7x30)	.010	.037	.389	200	100, 500, 1000
	NEW 8692	9	18 (16x30)	.018	.055	.638	400	100, 500, 1000
	8753	11	22 Solid	.010	.037	.384	200	100, 500, 1000
	8754	13	22 Solid	.010	.037	.409	200	100, 500, 1000
	8745	15	22 Solid	.010	.040	.420	200	100, 500, 1000
	8749	15	22 (7x30)	.010	.040	.425	200	100, 500, 1000
	8755	19	22 Solid	.010	.040	.480	200	500, 1000
	8756	23	22 Solid	.010	.040	.510	200	500, 1000
	8746	27	22 Solid	.010	.045	.550	200	§Cut to customer's specified length. Maximum length 1500'
8750	27	22 (7x30)	.010	.045	.595	200	§Cut to customer's specified length. Maximum length 1500'	

For color coding please refer to page 6

51 PAIR CABLE



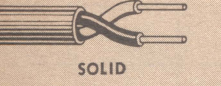

Description	Trade Number	No. of Pairs	Conductors	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Standard Spool Lengths in ft.
	8751	51	Solid Tinned Copper	.010	.050	.725	§Cut to customer's specified length. Maximum length 1500'

#22 tinned copper, vinyl insulated, cabled in pairs, BELDFOIL aluminum-Mylar shield over cabled pairs, #22 (7x30) stranded ground drain wire, chrome vinyl jacket. 200 Volts suggested working voltage. Color coding available on request.

§Minimum length 25'.
25' to 199', plus 25', minus 0.
200' or over, plus 50', minus 0.




For color coding information on 8751 write for Technical Data Electronic Wire Section SO-4

TWO CONDUCTOR UNSHIELDED CABLES

Description	Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Conductor Color Coding	Nominal O.D. (Inch)	Suggested Working Voltage	Standard Spool Lengths in ft
 Copper, vinyl insulated, PARALLEL	8781	22 (Solid)	.016	—	Chrome 1 cond. tinned	.060x .120	100	100, 500, 1000
	8782	24 (7x32)	.017	—	Chrome, Sand, Clear White, 1 cond. tinned	.058x .115	300	25, 50, 100, 500, 1000
 Without JACKET Copper, vinyl insulated, TWISTED.	8481	22 (Solid)	.015	—	Brn, Tan	.112	350	100, 500, 1000
	8482	19 (Solid)	.015	—	Brn, Tan	.130	350	100, 500, 1000
	8492	19 (Solid)	.025	—	Brown or White 1 cond. tinned	.170	600	1000
	8460	18 (7x26) tinned	.020	—	Blk, Wht	.175	450	100, 500, 1000
	8470	16 (19x29) tinned	.023	—	Blk, Wht	.195	600	500, 1000
 With JACKET SOLID  STRANDED Copper, vinyl insulated, CABLED, chrome vinyl jacket.	8740	22 (Solid) tinned	.015	.025	Blk, Red	.150	200	100, 500, 1000
	8442	22 (7x30) tinned	.015	.025	Blk, Red	.165	350	500, 1000
	8205	20 (10x30) tinned	.018	.025	Blk, Red	.190	350	100, 500, 1000
	8486	19 (Solid)	.015	.025	Brn, Tan	.162	350	500, 1000
	8461	18 (7x26) tinned	.020	.028	Blk, Wht	.226	450	100, 500, 1000
	8471	16 (19x29) tinned	.023	.030	Blk, Wht	.256	600	500, 1000
	8473	14 (19x27) tinned	.031	.035	Blk, Wht	.332	600	500, 1000


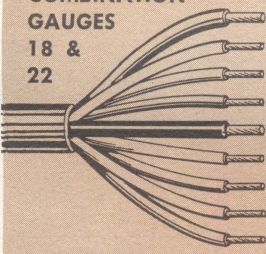
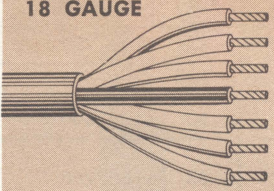
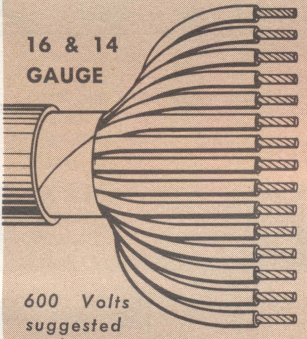
For additional 2 conductor cables see PORTABLE CORDAGE on page 12, and DUPLEX PRIMARY WIRE on page 26

THREE CONDUCTOR UNSHIELDED CABLES

Description	Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Conductor Color Coding	Nominal O.D. (Inch)	Suggested Working Voltage	Standard Spool Lengths in ft
 Copper, vinyl insulated, PARALLEL	8701	22 (Solid)	.016	—	Chrome 1 cond. tinned	.060x .190	100	100, 500, 1000
	8475	16 (19x29) bare	.023	—	Wht, Brn, Red	.102x .295	300	100, 500
 Without JACKET Bare copper, vinyl insulated, CABLED	8483	19 (Solid)	.015	—	Brn, Gray, Tan	.132	350	100, 500, 1000
	8493	19 (Solid)	.025	—	Brn, 1 cond. tinned, 1 cond. insulation is ribbed	.170	600	1000
 With JACKET Copper, vinyl insulated, CABLED, chrome vinyl jacket.	8443	22 (7x30) tinned	.010	.025	Blk, Grn, Red	.150	200	25, 100, 500, 1000
	8487	19 (Solid) bare	.015	.025	Brn, Gray, Tan	.180	350	500, 1000

For additional 3 conductor cables see PORTABLE CORDAGE on pages 12.

MULTIPLE CONDUCTOR CONTROL AND AUDIO CABLES (NOT PAIRED)

Description and Gauge	Trade Number	No. of Cond.	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Color Code or Chart No.	Standard Spool Lengths in ft.
<i>Bare copper, polyethylene insulated, cabled, rose gray vinyl jacket</i>	8794	3	22 (Solid)	.016	.022	.168	Red, Grn, Yellow	500, 1000
Triplet telephone cable								
All Constructions: Tinned copper, vinyl plastic insulated, cabled, vinyl jacket. 22 GAUGE  200 Volts suggested working voltage. COMBINATION GAUGES 18 & 22 	8443	3	22 (7x30)	.010	.025	.150	1	25, 100, 500, 1000
	8444	4	22 (7x30)	.010	.025	.168	1	25, 100, 500, 1000
	8445	5	22 (7x30)	.010	.025	.180	1	25, 100, 500, 1000
	8456	10	22 (7x30)	.010	.030	.260	1	100, 500, 1000
	8457	12	22 (7x30)	.010	.030	.260	1	100, 500, 1000
	NEW 8458	15	22 (7x30)	.010	.040	.320	2	100, 500, 1000
	NEW 8459	25	22 (7x30)	.010	.040	.370	2	100, 500, 1000
	8446	6	4-22 (7x30) 2-18 (16x30)	.010 .018	.025	.222	1	15, 100, 500, 1000
	8447	7	5-22 (7x30) 2-18 (16x30)	.010 .018	.028	.246	1	100, 500, 1000
	8448	8	6-22 (7x30) 2-18 (16x30)	.010 .018	.028	.250	1	15, 100, 500, 1000
8449	9	7-22 (7x30) 2-18 (16x30)	.010 .018	.028	.261	1	15, 100, 500, 1000	
18 GAUGE  400 Volts suggested working voltage.	8465	5	18 (16x30)	.018	.030	.272	1	100, 500, 1000
	8467	7	18 (16x30)	.018	.035	.320	1	100, 500, 1000
	8469	9	18 (16x30)	.018	.035	.375	1	100, 500, 1000
	NEW 8466	12	18 (16x30)	.018	.040	.402	2	100, 500, 1000
	NEW 8468	15	18 (16x30)	.018	.045	.490	2	100, 500, 1000
	16 & 14 GAUGE  600 Volts suggested working voltage.	NEW 8620	4	16 (19x29)	.030	.045	.375	2
NEW 8621		7	16 (19x29)	.030	.045	.455	2	100, 500, 1000
NEW 8622		12	16 (19x29)	.030	.060	.600	2	100, 500, 1000
NEW 8623		15	16 (19x29)	.030	.060	.650	2	100, 500, 1000
NEW 8624		19	16 (19x29)	.030	.065	.715	2	100, 500, 1000
NEW 8627		4	14 (19x27)	.045	.045	.495	2	100, 500, 1000
NEW 8628		7	14 (19x27)	.045	.060	.630	2	100, 500, 1000
NEW 8629		12	14 (19x27)	.045	.065	.820	2	100, 500, 1000

For 22 AWG and 18 AWG Combinations—22 AWG is rated at 200 volts and 18 AWG is rated at 400 volts.

COLOR CODE Chart No. 1






Conductor	Color
1st	Black
2nd	Red
3rd	Green
4th	White
5th	Brown
6th	Blue
7th	Orange
8th	Yellow
9th	Purple
10th	Gray
11th	Pink
12th	Tan

18 Gauge conductors in cables 8446 through 8449 are Black and Red.




IPCEA COLOR CODE (Insulated Power Cable Engineers Association)

Conductor		Color		Conductor		Color	
1st	Black	9th	Green/Black	17th	White/Red	18th	Orange/Red
2nd	White	10th	Orange/Black	19th	Blue/Red	20th	Red/Green
3rd	Red	11th	Blue/Black	21st	Orange/Green	22nd	Blk/Wht/Red
4th	Green	12th	Black/White	23rd	Wht/Blk/Red	24th	Red/Blk/Wht
5th	Orange	13th	Red/White	25th	Grn/Blk/Wht		
6th	Blue	14th	Green/White				
7th	White/Black	15th	Blue/White				
8th	Red/Black	16th	Black/Red				

RUBBER AND NEOPRENE MICROPHONE AND SHIELDED POWER SUPPLY CABLES

Description	Trade Number	No. of Cond.	AWG (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Percent Shield Coverage	Suggested Working Voltage	Impedance (Ohms)	Cap. (mmf/ft)	**Cap. (mmf/ft)	Standard Spool Lengths in ft
 SINGLE CONDUCTOR	8410	1	25(7x33)	.063	.025	.245	80	3000	52	—	33	25, 50, 100, 250, 500
	3 strands copper, 4 strands Copperweld tinned, cellulose yarn braid, rubber insulated, rayon braid, tinned copper braid shield, cellulose yarn wrap, black rubber jacket.											
 MINIATURE	8413	2	24(45x40)	.019	.025	.190	100	300	—	38	71	15, 25, 50, 100, 250, 500
	8406	3	24(45x40)	.019	.025	.223	100	300	—	43	76	100, 250, 500
Tinned cadmium bronze, cotton serve, rubber insulated, cabled with fillers, conductive textile serve, tinned copper braid shield, cotton serve, black rubber jacket.												
 MULTIPLE CONDUCTOR Tinned copper, cotton wrap, rubber insulated, rayon braid, tinned copper braid shield, cotton wrap, black rubber jacket.	8412	2	20(26x34)	.020	.043	.268	84	600	—	42	68	25, 50, 100, 250, 500
	8423	3	20(26x34)	.020	.040	.277	84	600	—	50	85	15, 50, 100, 250, 500, 1000
	8424	4	20(26x34)	.020	.040	.295	83.5	600	—	55	95	15, 50, 100, 250, 500, 1000
	8425	5	20(26x34)	.020	.040	.323	76	600	—	44	80	100, 250
	8426	6	20(26x34)	.020	.040	.349	90	600	—	40	78	100, 250
	8427	7	20(26x34)	.020	.043	.360	90	600	—	40	75	100, 250
	8418	8	20(26x34)	.020	.043	.386	92	600	—	42	75	100, 250
	8428	2	18(41x34)	.022	.038	.295	91	600	—	47	80	100, 500
 NEOPRENE HEAVY DUTY	8407	4	16(65x34)	.032	.043	.422	84	600	—	37	65	100, 250
	Tinned copper, separator, rubber insulated, cabled, rayon braid, tinned copper braid shield, cotton wrap, black neoprene jacket.											
 EXTRA LIMP	8414	2	20(26x34)	.020	.043	.256	100	600	—	45	80	50, 500
	Tinned copper, cotton wrap, rubber insulated, cabled, conductive textile wrapped shield, stranded ground wire, black rubber jacket. Recommended for desk microphone and applications under 20 ft. For studio application use 8412 and 8413.											

VINYL MICROPHONE AND SHIELDED POWER SUPPLY CABLES

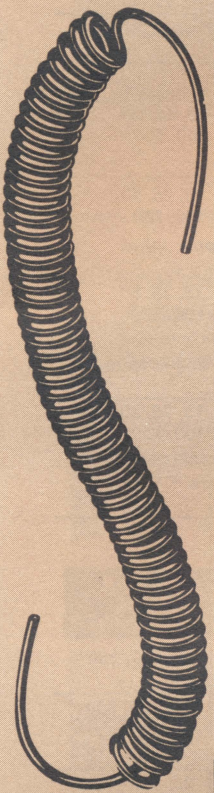
Description	Trade Number	No. of Cond.	AWG (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Percent Shield Coverage	Suggested Working Voltage	Impedance (Ohms)	Cap. (mmf/ft)	**Cap. (mmf/ft)	Standard Spool Lengths in ft
 SINGLE CONDUCTOR	8411	1	25(7x33)	.020	.020	.144	72	3500	52	—	34	15, 25, 50, 100, 250, 500
	8401	1	25(7x33)	.043	.025	.200	74	5000	57	—	25	15, 25, 50, 100, 250, 500
3 strands copper, 4 strands Copperweld, tinned, cellulose yarn braid, polyethylene insulated, tinned copper braid shield, chrome vinyl jacket.												
 MINIATURE	8420	2	24(45x40)	.015	.020	.185	77	500	—	22	40	15, 25, 50, 100, 250, 500
	Tinned cadmium bronze, cotton wrap, polyethylene insulated, cabled with fillers, rayon braid, tinned copper braid shield, chrome vinyl jacket.											
 MULTIPLE CONDUCTOR Tinned copper, polyethylene insulated, cabled, rayon braid, tinned copper braid shield, chrome vinyl jacket.	8422	2	22(16x34)	.023	.023	.231	87	1000	—	18	32	15, 25, 50, 100, 250, 500
	8403	3	20(26x34)	.015	.033	.244	89	600	—	25	45	15, 50, 100, 250, 500, 1000
	8404	4	20(26x34)	.015	.033	.255	87	600	—	25	45	15, 100, 250, 500, 1000
	8405	5	20(26x34)	.015	.035	.275	83	600	—	25	45	250, 500, 1000

Color coding of individual conductors for cables on this page and coiled microphone cables on page 11: (1) White, (2) Black, (3) Red, (4) Green, (5) Blue, (6) Brown, (7) Yellow, (8) Orange.

*Capacitance between conductors.

**Capacitance between 1 conductor and remaining conductors (if any) connected to shield.

NEOPRENE RETRACTILE (COILED) MICROPHONE CABLES

Description	Trade Number	No. of Cond.	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Nom. Coil O.D. (Inch)	Percent Shield Coverage	***Cap. (mmf/cord)	Retracted Length	Practical Extended Length	Standard Put-Up	
	8409	4 unshielded	28 (7x36)	.005	.050	.165	3/16	Noshield	—	12"	6'	1	
	<i>Tinned copper, nylon insulated, neoprene jacket.</i>												
	8415	4 unshielded	23 (21x36)	.020	.055	.250	7/8	Noshield	—	11 1/2"	6'	1	
	8499	1 shielded	24 (45x40)	.019	.043	.160	1 1/16	80	285	7 1/2"	4'	1	
	8497	3 1 shielded 2 unshielded	23 (21x36)	.020	.046	.250	7/8	100	480	11 1/2"	6'	1	
8491	4 2 individually shielded 2 unshielded	23 (21x36)	.020	.050	.300	1 1/16	100	480	12"	6'	1		

Tinned cadmium bronze, rubber insulated, paper tape wrap, black neoprene jacket. 8499 has a spiral tinned copper shield. 8497 and 8491 have a double BELDFOIL tape shield with a (21x36) tinned cadmium bronze drain wire for each shield conductor.

VINYL RETRACTILE (COILED) MICROPHONE CABLES

Trade Number	No. of Cond.	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Nom. Coil O.D. (Inch)	Percent Shield Coverage	***Cap. (mmf/cord)	Retracted Length	Practical Extended Length	Standard Put-Up
8498	1 shielded	24 (45x40)	.019	.060	.195	1 1/16	80	285	7 1/2"	3 1/2'	1

Tinned cadmium bronze, rubber insulated, over-all vinyl jacket. 8498 has a spiral tinned copper shield.

NEOPRENE RETRACTILE (COILED) POWER CONTROL CABLES

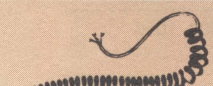
Longer lengths are available on request.

Trade Number	No. of Cond.	UL Type	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Nom. Coil O.D. (Inch)	Retracted Length	Practical Extended Length	Standard Put-Up
8601	2	SVO	18 (41x34)	.016	.045	.270	1	12"	6'	1
8602	3	SJO	18 (41x34)	.031	.045	.360	1 3/8	12"	6'	1
8603	3	SJO	16 (65x34)	.031	.045	.370	1 1/2	12"	6'	1
8604	3	SJO	16 (65x34)	.031	.045	.370	1 1/2	24"	12'	1

Bare copper, paper wrap, rubber insulation, cabled with fillers, paper tape wrap, black neoprene jacket. 6" straight portion each end. Jacket removed 1 1/2" each end.

TYPICAL APPLICATIONS
Hams
Citizen Band
Hand Mikes
Desk Mikes
Language Labs
Mobile Controls
Mobile Communications
Industry Applications

VINYL RETRACTILE (COILED) TELEPHONE CORDS

Description	Trade Number	No. of Cond.	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Nom. Coil O.D. (Inch)	Retracted Length	Practical Extended Length	Standard Put-Up
	8495	3	23 (21x36)	.020	.041	.220	7/8	10"	4 1/2'	1
	8494	4	23 (21x36)	.020	.043	.245	7/8	10"	4 1/2'	1

Bare cadmium bronze, vinyl insulated, cabled, paper wrapped, black vinyl jacket. 8494 one end stripped 7 3/4", spade terminals attached and hook strain relief clamped over jacket. Other end stripped 6 1/4" and spade terminals attached. 8495 one end stripped 2 3/4", spade terminals attached and hook strain relief clamped over jacket. Other end stripped 3 7/8" and spade terminals attached.

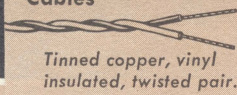
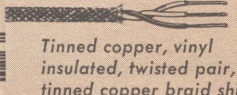




RUBBER-PLASTIC-NEOPRENE

PLASTIC CABLES RECOMMENDED FOR: Lower capacitance, lower loss, greater ozone and oil resistance, lighter weight, smaller diameter.
RUBBER CABLES RECOMMENDED FOR: Greater abrasion and impact resistance, and extra limpness so cable will lie flat on stage or studio floor.
NEOPRENE CABLES RECOMMENDED FOR: Outside use, cold weather applications. Resistant to effects of sun, oil, and ozone.


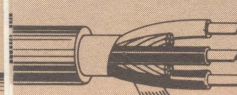
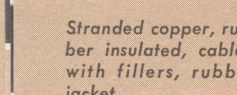
***Capacitance of shielded conductor.

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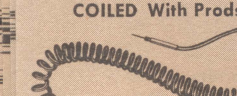
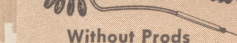
HI-FI AND STEREO CABLES

Description	Trade Number	No. of Cond.	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Cond. Color Coding	Nom. Cap. between condrs. (mmf ft)	Nom. Cap. condr. to other condr. & shield (mmf ft)	Standard Spool Lengths in ft
Phono Pick-Up Arm Cables	8430	2	32 (7x40)	.009	—	.050	Blk, Red	21	—	10, 25, 250
 Tinned copper, vinyl insulated, twisted pair.	→	4	Use two 8430s for maximum channel isolation, one for each channel.							
	8429	2	32 (7x40)	.009	—	.057	Blk, Red	22	38	10, 25, 250
 Tinned copper, vinyl insulated, twisted pair, tinned copper braid shield.	8419	3	32 (7x40)	.009	—	.067	Blk, Red, Wht	30	50	10, 25, 250
→	4	Use two 8429s for maximum channel isolation, one for each channel.								
 Tinned copper, rubber insulated, tinned copper braid shield, brown cotton braid.	8431	1	24 (16x36)	.015	—	.095	—	96	—	10, 15, 25 100, 500
Hi-Fi Connecting Cable	8421	1	25 (7x33)	.025	.025	.180	—	18	—	15, 25, 50, 100, 250
	3 strands tinned copper and 4 tinned Copperweld, cellular polyethylene insulated, tinned copper spiral wrapped shield, chrome vinyl jacket.									
	8416	2	25 (7x33)	.018	.020	.106 x .213	1 Wht 1 Red	35 each channel	—	15, 25, 50, 100, 250
 Dual Channel Audio Cable for stereo and language labs	3 strands tinned copper and 4 tinned Copperweld, polyethylene insulated, individual tinned copper spiral wrapped shield, chrome vinyl jacket, polarity rib on red conductor.									
 BELDFOIL [®] Miniature Audio Connecting Cable totally shielded	8417	1	25 (7x33)	.020	.026	.140	Chrome	25	—	15, 25, 50, 100, 250
3 strands tinned copper and 4 tinned Copperweld, cellular polyethylene insulated double BELDFOIL aluminum-Mylar shield, inner shield "Z" folded 26 AWG stranded tinned copper ground drain wire, chrome vinyl jacket.										

RUBBER-VINYL MULTI-CONDUCTOR PORTABLE CORDAGE—300V-60C

Description	Trade Number	U.L. Type	Insulation	No. of Conductors	AWG & Stranding	Insulation Thickness (Inch)	Conductor Coding	Jacket Thickness (Inch)	Nominal O.D. (Inch)	Color	Standard Spool Lengths in ft
	8462	SP-1	Rubber	2	18 (41x34) Tinned	.031	Polarity Ribbed	—	.123 x .223	Brown or Ivory	25, 100, 250
	8888	SPT-1	Vinyl	2	18 (41x34)	.031	Polarity Ribbed	—	.110 x .207	Brn, Ivory, or Gray	25, 100, 250
Two conductors, stranded copper, parallel, insulated with one conductor polarity ribbed.											
	8452	SV	Rubber	2	18 (41x34)	.016	Blk, Wht	.031	.245	Black	25, 50, 100, 250, 500, 1000
	8478	SJ	Rubber	2	18 (41x34)	.031	Blk, Wht	.031	.298	Black	100, 250, 1000
	8472	SJ	Rubber	2	16 (65x34)	.031	Blk, Wht	.031	.325	Black	25, 100, 250
	8474	—	Rubber	2	14 (41x30)	.031	Blk, Wht	.035	.360	Black	100, 250
	8453	SV	Rubber	3	18 (41x34) Tinned	.016	Blk, Wht, Green	.031	.265	Black	50, 100, 500
 Stranded copper, rubber insulated, cabled with fillers, rubber jacket	8454	—	Rubber	4	18 (41x34) Tinned	.016	Blk, Wht, Brn, Red	.031	.265	Black	50, 100, 500, 1000
	8455	—	Rubber	5	3—20 (26x34) 2—18 (41x34) Tinned	.015 .015	Brn, Grn, White Blk, Red	.031	.280	Black	100, 250

TEST PROD WIRE

Description	Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Breakdown Voltage	Suggested Working Voltage	Standard Package	Standard Spool Lengths in ft.
 Tinned copper, separator, rubber insulated, red or black.	8899	18 (65x36)	.045	.144	20,000	5,000	—	10, 14*, 25, 100, 500, 1000 *7' of red and 7' of black.
	8897	18 (65x36)	.045	.144	20,000	5,000	—	500, 1000
Manufactured per MIL-W-13169								
	8898	18 (65x36)	.088	.230	29,000	10,000	—	10, 25, 100, 500
 Miniature	NEW 8890	24 (45x40)	.019	.066	10,000	1,000	—	25, 100, 500
Stranded tinned copper, cotton separator, rubber insulated, red or black.								
 COILED With Prods	8878	20 (42x36)	.063	.173	20,000	5,000	1 pair Red and Black	—
Tinned copper, rubber insulated, red or black. Retracted length 8". Stretches to 5'.								
 Without Prods	8879	20 (42x36)	.063	.173	20,000	5,000	1 pair Red and Black	—
Tinned copper, rubber insulated, red or black. Retracted length 8". Stretches to 5'.								

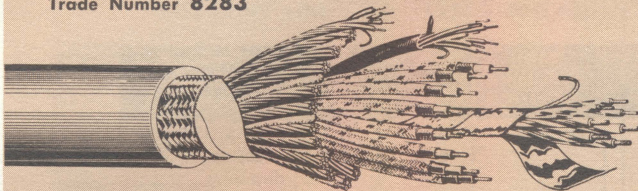
[®] Belden U.S. Patent 3,032,604

TV CAMERA CABLES

Belden TV Broadcasting and closed circuit TV Camera Cables are precision engineered to assure reliable performance and long service life. In addition to lighter weight, greater flexibility, and easier termination

these cables are designed to maintain high conductor insulation resistance regardless of changes in ambient temperatures.

Trade Number 8283

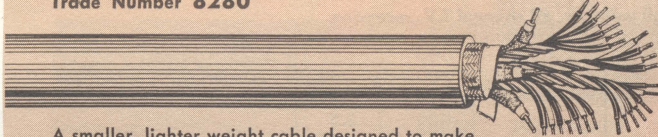


Designed to meet the critical electrical and physical requirements necessary for color television broadcast applications.

82 Conductor TV Color Camera Cable

4-14 AWG (19x27) tinned copper, vinyl plastic insulated, color coded
 3-16 AWG (26x30) tinned copper, vinyl plastic insulated, color coded
 BELDFOIL aluminum-Mylar wrapped shield around the above 7 conductors cabled with stranded tinned copper drain wire
 8 coaxial cables. Nom. impedance 53.5 ohms, color coded
 67-22 AWG (7x30) tinned copper, vinyl plastic insulated, color coded,
 7 under conductive textile shield with stranded ground wire
 Tinned copper braid shield
 Chrome vinyl plastic jacket. 1.22" Nom. O.D.
 §Cut to customer's specified length.
 Maximum length 1000'

Trade Number 8280

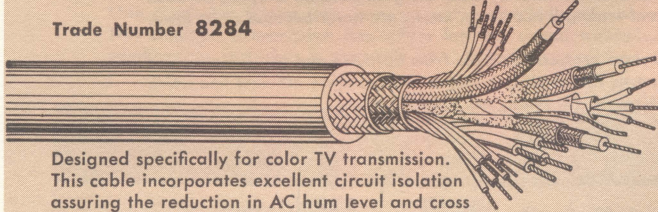


A smaller, lighter weight cable designed to make long runs easier. Recommended for black and white (Monochrome) systems.

28 Conductor TV Camera Cable

4-18 AWG (16x30) tinned copper, vinyl insulated, color coded
 21-22 AWG (7x30) tinned copper, vinyl insulated, cabled in 3 groups of 7, color coded
 3 coaxial cables. Nom. impedance 51 ohms, color coded
 Tinned copper braid shield
 Chrome vinyl jacket. .750" Nom. O.D.
 §Cut to customer's specified length.
 Maximum length 1500'

Trade Number 8284



Designed specifically for color TV transmission. This cable incorporates excellent circuit isolation assuring the reduction in AC hum level and cross talk essential for color TV broadcasting.

24 Conductor TV Camera Cable

17-22 AWG (7x30) tinned copper, vinyl insulated, color coded
 3 under BELDFOIL shield with stranded drain wire
 4-16 AWG (26x30) tinned copper, vinyl insulated, color coded
 3 coaxial cables. Nom. impedance 53.5 ohms, color coded
 Tinned copper braid shield
 Heavy cotton braid
 Chrome vinyl plastic jacket. .800" Nom. O.D.
 §Cut to customer's specified length.
 Maximum length 1000'

Trade Number 8282



Especially engineered for TV Eye Cameras. Recommended for remote control, monitor and cue line applications.

13 Conductor TV Eye Cable

9-22 AWG (7x30) tinned copper, vinyl insulated, color coded
 2-18 AWG (16x30) tinned stranded copper conductor vinyl insulated. Black and Red
 1-RG-58A/U cable 50-ohm coax
 1-72-ohm coax, stranded conductor, Mylar tape wrapped
 Chrome vinyl jacket. .470" Nom. O.D.
 §Cut to customer's specified length.
 Maximum length 2000'



This series of cables is also recommended as interconnecting cables in complex electronic applications. Each cable contains coaxial cables for §Minimum length 25'. 25' to 199', plus 25', minus 0. 200' or over, plus 50, minus 0.

RF and Video signals, pulse voltages or high voltage lines as well as many conductor groups for control and power circuits.

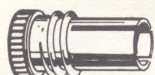
75 OHM PRECISION VIDEO CABLE

TYPICAL APPLICATIONS: Video signal transmission in color and monochrome TV studios. Provides high quality carrier of video signal with superior picture definition and eliminates problems of periodicity. Cable

is manufactured with rigid control of concentricity and all dimensional tolerances. The black polyethylene jacket is manufactured with a non-contaminating, non-migratory compound. 100% SWEEP TESTED.

Description	Trade Number	AWG & (Stranding) Material	Nom. O.D. (Inch)	Percent Shield Coverage	Nom. Impedance (Ohms)	Nom. Velocity of Propagation	Nom. Cap. (mmf/ft)	Nom. Attenuation		Standard Spool Lengths in ft
								mc	db	
	8281	20 (Solid) copper	.304	96.4	75	66%	21.	5	.55	500, 1000
								10	.8	
								20	1.3	
								100	2.7	
								300	5.1	
								500	6.8	
700	8.4									
	NEW 8279	23 (7x31) Tinned compacted conductor	.242	96	75	66%	21.	5	1.0	100, 250, 500
								10	1.4	
								20	2.0	
								100	4.4	
								300	7.6	
								500	9.8	
700	11.5									

Compacted conductor, polyethylene insulated, tinned copper braid shield, black polyethylene jacket. Fits RG 59/U connectors. Compacted conductor combines impedance uniformity of solid conductor and "nick-resistance" of stranded conductor.









For Use on 8281 Only

NEW 8299 Adapter for use with PL-259 connector. 25 in a box.



TWIN LEAD WIRES

Description & Trade Number	AWG & (Stranding)	Color	Nom. O.D. (Inch)	Nom. Velocity of Propagation	Nom. Capacitance (mmf/ft)	Nom. Attenuation per 100'		Standard Package Lengths in ft
						mc	db	
Permohm★ 8285  Copperweld, 2 conductors parallel, orange polyethylene insulation and web between conductors, cellular polyethylene oval jacket.	22 (7x30)	Brown	.255	73.3%	5.3	100	1.4	50, 75, 100 coils in counter dispenser 250, 500 coils 1000 spool
			x			300	2.8	
			.468			500	3.8	
						700	4.8	
						900	5.6	
PERMOHM Encapsulated twin lead for strong, clear signals on all channels despite salt spray, industrial contamination, rain, ice and fringe area reception. An excellent color, UHF or VHF cable. First choice for all weather, all channel T.V. reception								
Celluline★★ 8275  Copperweld; 2 conductors parallel, polyethylene jacket with inert gas filled unicellular polyethylene core.	20 (7x28)	Brown	.300	80%	4.6	100	1.05	50, 75, 100 coils in counter dispenser 250, 500 1000 spools
			x			200	1.64	
			.400			300	2.12	
						400	2.5	
						500	2.98	
CELLULINE Maintains uniform electrical characteristics by eliminating all possible moisture between conductors. Installation is easier as no end-sealing is necessary. Losses are lower because of its lower dielectric constant (1.5). The thick outer wall of brown polyethylene protects the cable from abrasion and sun damage, and the round shape offers less wind resistance. The result is a longer lasting, more efficient line which helps maintain a strong UHF or VHF reception for black and white or color.								
8235  Bare copper, 2 conductors parallel, polyethylene insulated.	18 (7x26)	Brown	.185	77%	5.0	100	.85	100 coil 500 spool
			x			200	1.35	
			.520			300	1.80	
						400	2.20	
						500	2.60	
Amateur transmitting and receiving twin lead—1KW(RF) rated.								
Weldohm†† 8230  Copperweld; 2 conductors parallel, polyethylene insulated.	20 (7x28)	Brown	.072	80%	4.4	100	1.1	25, 50, 75, 100 pancake coils in a sleeve 250, 500 1000 spools
			x			200	1.7	
			.400			300	2.2	
						400	2.7	
						500	3.1	
WELDOHM This cable is 1½ times STRONGER and has 2½ times more FLEX LIFE than equivalent twin lead with all copper conductors, without changing the RF electrical characteristics. Tests prove its superior resistance to the pulling, whipping, and twisting that is so important to a long lasting installation.								
8225  Bare copper, 2 conductors parallel, polyethylene insulated.	20 (7x28)	Brown	.058	80%	4.4	100	1.1	25, 50, 75, 100 pancake coils in a sleeve 250, 500 1000 spools
			x			200	1.7	
			.400			300	2.2	
						400	2.7	
						500	3.1	
Brown polyethylene for the best weathering.								
8226  Bare copper, 2 conductors parallel, polyethylene insulated.	20 (7x28)	Ivory	.058	80%	4.4	Same as 8225		25, 50, 75, 100 pancake coils in a sleeve
			x					
			.400					
Recommended for indoor use.								

†† Belden Trademark—Reg. U.S. Pat. Off.

★ Belden Trademark, Reg. U.S. Pat. Off., and Belden U.S. Pat. 2,782,251.

★★ Belden Trademark, Reg. U.S. Pat. Off., and Belden U.S. Pat. 2,814,666.

BELDEN MERCHANDISERS

WITH TERMINALS



10 Pancake Coils per Box

300 ohm Line Package Coils
8225

8226 (New Indoor Ivory)

8230 (Weldohm)

Put-ups 25', 50', 75', 100'

Antenna Rotor Cables

8464 (4 conductor, flat)

Put-ups 50', 75', 100'

NEW 8463 (5 conductor, flat).

Put-ups 50', 100'



300 ohm Line Coils



8275 (Celluline)

8285 (Permohm)


Put-ups 50', 75', 100'

10 Coils per box

72 OHM TRANSMISSION LINE CABLES

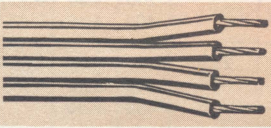
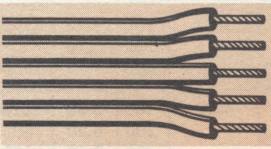
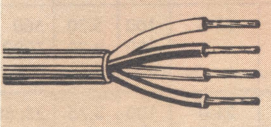
Description	Trade Number	AWG & (Stranding)	Nom. O.D. (Inch)	Nom. Velocity of Propagation	Nom. Capacitance (mmf. ft)	Nom. Attenuation per 100'		Standard Spool Lengths in ft
						mc	db	
72 OHM LINE 	8222	20 (7x28)	.075 x .128	69%	20.3	100	7.7	100, 500
						200	11.0	
						300	13.6	
						400	15.9	
<i>Bare copper, 2 conductors parallel, brown polyethylene insulated.</i>								
72 OHM 1 KW (RF) RATED 	8210	13 (7x21)	.166 x .278	68%	21.0	100	3.8	100, 250
						200	6.0	
						300	7.8	
						400	9.3	
						500	11.0	
						700	13.7	
900	16.0							
<i>Bare copper, 2 conductors parallel, brown polyethylene insulated.</i>								

SHIELDED 100 OHM TRANSMISSION LINE

Description	Trade Number	AWG & (Stranding)	Nom. O.D. (Inch)	Nom. Velocity of Propagation	Percent Shield Coverage	Nom. Capacitance (mmf. ft)	Nom. Attenuation per 100'		Standard Spool Lengths in ft
							mc	db	
	8227	20 (7x28)	.325	62%	83	15.5	100	4.1	500
							200	6.4	
							300	8.4	
							400	10.2	

One conductor tinned, one bare copper, polyethylene insulated, cabled, polyethylene jacket, tinned copper braid shield, black vinyl jacket. This shielded transmission line offers low-loss signal transmission which remains unaffected by outside signals or noise fields. Recommended for RF applications requiring a cross-talk free, balanced operation.


ANTENNA ROTOR CABLE

Description	Trade Number	No. of Cond.	AWG & (Stranding)	Cond. Coding	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Suggested Working Voltage	Standard Package Lengths in ft
	8464	4	20 (7x28)	1 cond. tinned and insulation ribbed	—	—	.070 x .390	200	50, 75, 100 pancake coils 500, 1000 spools
	NEW 8463	5	20 (7x28)	1 cond. tinned	—	—	.070 x .375	200	50, 100 pancake coils 500, spools
	8484	4	20 (7x28)	Blk, Grn, Red, Wht	.010	.020	.180	200	100, 500, 1000 spools
	8485	5	20 (7x28)	Blk, Grn, Red, Wht, Yel	.010	.020	.190	200	100, 500, 1000 spools
	8488	8	22 (7x30)	Blk, Blu, Brn, Grn, Org, Red, Wht, Yel	.010	.020	.205	200	100, 500, 1000 spools
<i>Bare copper, vinyl insulated, cabled, chrome vinyl jacket.</i>									

ALUMINUM GROUND WIRE

Packaged in counter dispensers of 10-50' connected coils, or spools of 500 ft. Wire on spools is marked every 100' for easy measuring.

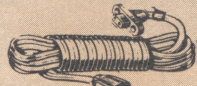
Description	Trade Number	Nom. O.D. (Inch)	Standard Package Lengths in ft
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	8018	.128	500 in 10-50 connected coils 500 spools
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8 AWG solid, soft annealed aluminum


TV AND CHEATER CORDS

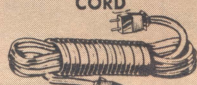
Description	Trade Number	Length in ft.	Standard Package
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CHEATER CORDS 	8874	6	1 in polyethylene bag with description. SP-1 brown rubber parallel cord with male plug and TV connector.
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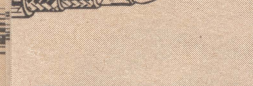

	8895	6	1 in polyethylene bag with description. 100 bulk hanked.
	8889	9	

	NEW 8873	6	1 in polyethylene bag with description. 100 bulk hanked.
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Polarized 	SPT-1 brown plastic parallel cord with Polarized male plug and TV connector.		
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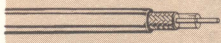
CHEATER EXTENSION CORD 	8875	6	1 in polyethylene bag with description. SPT-1 red plastic parallel cord with male and female TV connectors.
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RG/U CABLES

Description	Trade Number	RG No.	AWG & (Stranding) Material	Insulation	No. of Shields & Material	Jacket	Nom. O.D. (Inch)	Nom. Imp. (Ohms)	Nom. Vel. of Prop.	Nom. Cap. (mmf./ft.)	Nom. Attenuation per 100'		Standard Spool Lengths in ft.
											mc	db	
	8264 JAN-C-17A	5A/U	16 (Solid) silver coated copper	Polyethylene	2 silver-coated copper	Gray non-contaminating vinyl	.328	50	66%	28.5	100 200 400	2.40 3.50 5.25	500 1000
	8237 JAN-C-17A	8/U	13 (7x21) bare copper	Polyethylene	1 bare copper	Black vinyl	.405	52	66%	29.5	100 200 400	2.10 3.30 4.50	100 250, 500 1000
	8242 JAN-C-17A	9/U	13 (7x21) silver coated copper	Polyethylene	2 inner-silver-coated outer-bare copper	Gray non-contaminating vinyl	.420	51	66%	30.0	100 200 400	2.10 3.30 4.50	100 1000
	NEW 8243 MIL-C-17D	9B/U	13 (7x21) silver coated copper	Polyethylene	2 silver coated copper	Black non-contaminating vinyl	.420	50	66%	30.0	100 200 400	2.10 3.30 4.50	500 1000
	8238 JAN-C-17A	11/U	18 (7x26) tinned copper	Polyethylene	1 bare copper	Black vinyl	.405	75	66%	20.5	100 200 400	1.90 2.85 4.35	100 250, 500 1000
	8261 MIL-C-17D	11A/U	18 (7x26) tinned copper	Polyethylene	1 bare copper	Black non-contaminating vinyl	.405	75	66%	20.5	100 200 400	1.90 2.85 4.35	100 500 1000
	8239 JAN-C-17A	54A/U	18 (7x.0152) bare copper	Polyethylene	1 tinned copper	Clear polyethylene	.245	58	66%	26.5	100 200 400	3.10 4.40 6.70	500 1000
	8245 JAN-C-17A	55/U	20 (Solid) bare copper	Polyethylene	2 tinned copper	Clear polyethylene	.201	53.5	66%	28.5	100 200 400	4.10 6.20 9.50	500 1000
	8240 JAN-C-17A	58/U	20 (Solid) bare copper	Polyethylene	1 tinned copper	Black vinyl	.195	53.5	66%	28.5	100 200 400	4.10 6.20 9.50	25, 50, 100 250, 500 1000
	8259 JAN-C-17A	58A/U	20(19x.0071) tinned copper	Polyethylene	1 tinned copper	Black vinyl	.195	50	66%	30.8	100 200 400	5.30 8.20 12.60	25, 50 100, 500 1000
	8262 MIL-C-17D	58C/U	20(19x.0071) tinned copper	Polyethylene	1 tinned copper	Black non-contaminating vinyl	.195	50	66%	28.5	100 200 400	5.30 8.20 12.60	500 1000
	8241 JAN-C-17A	59/U	22 bare Copperweld	Polyethylene	1 bare copper	Black vinyl	.242	73	66%	21.0	100 200 400	3.75 5.60 8.30	25, 50, 100 250, 500 1000
	8263 MIL-C-17D	59B/U	.023 bare Copperweld	Polyethylene	1 bare copper	Black non-contaminating vinyl	.242	75	66%	20.5	100 200 400	3.75 5.60 8.30	500 1000
	8254 JAN-C-17A	62/U	22 bare Copperweld	Semi-solid Polyethylene	1 bare copper	Black vinyl	.242	93	84%	13.5	100 200 400	3.10 4.40 6.30	100 500 1000
	NEW 8255 MIL-C-17-D	62B/U	24 (7x32) bare Copperweld	Semi-solid Polyethylene	1 bare copper	Black non-contaminating vinyl	.242	93	84%	13.5	100 200 400	3.10 4.40 6.30	500 1000
	8257 JAN-C-17A	71/U	22 bare Copperweld	Semi-solid Polyethylene	2 tinned copper	Clear Polyethylene	.245	93	84%	13.5	100 200 400	3.10 4.40 6.30	500 1000
	NEW 8258 MIL-C-17-D	71B/U	22 bare Copperweld	Semi-solid Polyethylene	2 tinned copper	Black non-contaminating vinyl	.245	93	84%	13.5	100 200 400	3.10 4.40 6.30	500 1000
	8216	174/U	7x34 bare Copperweld	Polyethylene	1 tinned copper	Black vinyl	.100	50	65.5%	30.4	100 200 400	8.8 13.0 20.0	100 500 1000

Navy Drawing RE-49B716

RG/U CABLES

Description	Trade Number	RG No.	AWG & Stranding) Material	Insulation	No. of Shields & Material	Jacket	Nom. O.D. (Inch)	Nom. Imp. (Ohms)	Nom. Vel. of Prop.	Nom. Cap. (mmf ft.)	Nom. Attenuation per 100' db		Standard Spool Lengths in ft.
	NEW 8265 MIL-C-17-D	178B/U	30 (7x38) Silver coated Copper-weld	TFE TEFLON	1 Silver coated copper	Brown FEP TEFLON	.072	50	69.5	29	400	29.0 Max.	100 500
	NEW 8266 MIL-C-17-D	180B/U	30 (7x38) Silver coated Copper-weld	TFE TEFLON	1 Silver coated copper	Brown FEP TEFLON	.142	95	69.5	15	400	17.0 Max.	100 500
	NEW 8269 MIL-C-17-D	188A/U	26 (7x.0067) Silver coated Copper-weld	TFE TEFLON	1 Silver coated copper	White TFE TEFLON	.106	50	69.5	29	400	20.0 Max.	100 500
	NEW 8270 MIL-C-17-D	196A/U	30 (7x38) Silver coated Copper-weld	TFE TEFLON	1 Silver coated copper	White TFE TEFLON	.076	50	69.5	29	400	29.0 Max.	100 500
	8267 MIL-C-17-D	213/U	13 (7x21) bare copper	Polyethylene	1 bare copper	Black non-contaminating vinyl	.405	50	66%	28.5	100 200 400	2.10 3.30 4.50	500 1000
	NEW 8268 MIL-C-17-D	214/U	13 (7x.0296) Silver coated copper	Polyethylene	2 Silver coated copper	Black non-contaminating vinyl	.425	50	66%	30	100 200 400	2.10 3.30 4.50	500 1000

REQUEST QUOTATIONS ON PRODUCTION QUANTITIES OF RG/U CABLES NOT LISTED.

RG/U COAXIAL CABLES

Belden's RG/U cables are manufactured and laboratory tested in accordance with existing military specifications. These cables combine low capacitance and low attenuation. The virgin polyethylene insulation assures constant electrical characteristics regardless of changes in frequency or temperature.


A variety of available jacket types include abrasion resistant polyethylene, polyvinylchloride (recommended for chemical and weather resistance) and a special non-contaminating vinyl compounded for applications above 3000 megacycles.

Typical applications: Flexible test leads, patch cords and high voltage leads (consult applicable Mil Spec for dielectric rating of individual RG/U types). Excellent for audio applications.

Note: Maximum temperature rating of polyethylene is 80°C (176°F). The polyethylene insulation begins to soften above this temperature.

Manufactured to current Government specifications and subsequent revisions.

FOAM CORE RG-8/U TYPE TRANSMISSION LINE




Description	Trade Number	AWG & (Stranding) Material	Percent Shield Coverage	Nom. O.D. (Inch)	Nom. Impedance (Ohms)	Nom. Velocity of Propagation	Nom. Cap. (mmf ft)	Nom. Attenuation per 100' db		Standard Spool Lengths in ft.
	8214	11 (7x19)	96.8	.403	50	78%	26	50 100 200 300 400	1.20 1.80 2.60 3.30 3.80	100 500 1000

Conductor, cellular polyethylene insulated, bare copper braid shield, black vinyl jacket.

Foam core RG-8/U type—for use in citizens' band and amateur radio as a 50 ohm antenna cable.

COMMUNITY ANTENNA AND CLOSED CIRCUIT TV CABLES

ALL CABLES IN THIS GROUP ARE SWEEP TESTED

Description	Trade Number	AWG & (Stranding) Material	Percent Shield Coverage	Nom. O.D. (Inch)	Nom. Impedance (Ohms)	Nom. Velocity of Propagation	Nom. Cap. (mmf/ft)	Nom. Attenuation per 100		Standard Spool Lengths in ft
								mc	db	
 <p>Conductor, cellular polyethylene insulated, bare copper braid shield, polyethylene jacket (except 8217 extra limp vinyl jacket).</p>	8211 Black	22 (Solid) Copperweld	94.6	.242	80	78%	16.3	50	2.4	500, 1000, 2000
								100	3.4	
								200	4.8	
								300	5.8	
<i>Fits the same connectors as RG-59/U Foam core RG-59/U type</i>								400	6.7	
	8212 Black	20 (Solid) Copperweld	94.6	.242	75	78%	17.3	50	2.3	500, 1000, 2000
								100	3.2	
								200	4.5	
								300	5.5	
<i>Foam core RG-59/U type</i>								400	6.3	
	8217 White	22 (Solid) Copperweld	94.6	.242	80	78%	16.3	50	2.4	100, 500, 1000
								100	3.4	
								200	4.8	
								300	5.8	
<i>Fits the same connectors as RG-59/U Foam core RG-59/U type</i>								400	6.7	
	8213 Black	14 (Solid) copper	96.8	.405	75	78%	17.3	50	1.0	500, 1000, 2000
								100	1.5	
								200	2.3	
								300	2.9	
<i>Foam core RG-11/U type</i>								400	3.4	
 <p>Conductor, cellular polyethylene insulated, two bare copper braid shields, black polyethylene jacket.</p>	8215 Black	21 (Solid) Copperweld	96.6 (inner shield)	.332	75	66%	20.5	50	2.0	100, 500, 1000
								100	2.9	
								200	4.3	
								300	5.4	
<i>RG-6A/U type</i>								400	6.5	
 <p>Triaxial Conductor, cellular polyethylene insulated, bare copper braid shield, polyethylene insulated, bare copper braid shield, black polyethylene jacket.</p>	8232 Black	20 (Solid) Copperweld	94.6 (inner shield)	.315	75	78%	17.3	50	2.3	500, 1000, 2000
								100	3.2	
								200	4.5	
								300	5.5	
<i>RG-6A/U type</i>								400	6.3	
	8233 Black	14 (Solid) copper	82.5 (inner shield)	.475	75	78%	17.3	50	1.0	500, 1000, 2000
								100	1.5	
								200	2.3	
								300	2.9	
<i>RG-6A/U type</i>								400	3.4	

SWEEP TESTING


For satisfactory transmission of a signal through a cable at any frequency, Belden Sweep Tests every length of its Community TV Cables at all channels in the VHF Frequency range on an oscilloscope.

Sweep Testing, performed by trained technicians using the most modern equipment, prevents unsatisfactory program reception due to

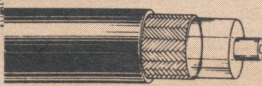
imperfections in the cable acting as "Filter Traps" at some frequencies.

The black polyethylene jackets on Belden numbers 8211, 8212, 8213, 8215, 8232, and 8233 are manufactured with a noncontaminating, nonmigratory compound specially formulated for superior weather resistance.

HIGH VOLTAGE CATHODE-RAY TUBE LEAD

Description	Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Jacket Color	Break-down Voltage	Suggested Working Voltage	Standard Spool Lengths in ft
 <p>Tinned copper, conductive polyethylene, polyethylene insulated, vinyl jacket.</p>	8868	22 (7x30)	.045	.015	.150	Red	50,000	25,000	25, 100, 500
	8869	22 (7x30)	.030	.015	.120	Blk	35,000	17,000	25, 100, 500
<i>8869 for use with non-conductive ceramic flyback cores.</i>									

60 KV D.C. HIGH VOLTAGE CABLE

Description	Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Jacket Color	Break-down Voltage	Suggested Working Voltage	Standard Spool Lengths in ft
	8870	22 (Solid) Copperweld	.142	.020	.440	Black	160,000 D.C.	60,000 D.C.	100
<i>Solid Copperweld, conductive polyethylene, polyethylene insulation, tinned copper braid equipotential sheath, black polyethylene jacket.</i>									

Conductive polyethylene over inner conductor combined with a copper wire braid over the dielectric provides uniform distribution of voltage stress. Consult Belden Engineering Department for AC or pulse applications.

TYPE B—VINYL—600V—105C



Tinned copper, vinyl insulated.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors on Standard Spools			Stock Colors	
					100'	500'	1000'		
8599	B-32	32(7x40)	.010	.029	1 thru 10	—	1 thru 10	1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black 14 White/Black 15 White/Red 16 White/Green 17 White/Yellow 18 White/Blue 19 White/Brown 20 White/Orange 21 White/Gray 22 White/Violet	
8598	B-30	30(7x38)	.010	.032	1 thru 10	—	1 thru 10		
8597	B-28	28(7x36)	.010	.035	1 thru 10	—	1 thru 10		
8505	B-26	26(7x34)	.010	.039	1 thru 10 14 thru 22	1 thru 10 —	1 thru 10 14 thru 22		
8509	B-24	24(19x36)	.010	.045	9, 14 thru 22	—	9, 14 thru 22		
8504	B-24	24(7x32)	.010	.044	1 thru 10 14 thru 22	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8508	B-22	22(19x34)	.010	.051	9, 14 thru 22	—	9, 14 thru 22		
8503	B-22	22(7x30)	.010	.050	1 thru 10 14 thru 22	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8507	B-20	20(19x32)	.010	.059	9, 14 thru 22	—	9, 14 thru 22		
8502	B-20	20(7x28)	.010	.058	1 thru 10 14 thru 22	1 thru 10 —	1 thru 10 14 thru 22		
8506	B-18	18(19x30)	.010	.069	9, 14 thru 22	—	9, 14 thru 22		
8501	B-18	18(7x26)	.010	.068	1 thru 10 14 thru 22	1 thru 10 —	1 thru 10 14 thru 22		
8500	B-16	16(19x29)	.010	.077	1 thru 10 14 thru 22	1 thru 10 —	1 thru 10 14 thru 22		

TYPE B—VINYL-NYLON JACKET—600V—115C



Tinned copper, vinyl insulated, nylon jacket overall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors on Standard Spools		Stock Colors	
					100'	1000'		
8596	B-32	32(7x40)	.010	.035	1 thru 10	1 thru 10	1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black 14 White/Black 15 White/Red 16 White/Green 17 White/Yellow 18 White/Blue 19 White/Brown 20 White/Orange 21 White/Gray 22 White/Violet	
8595	B-30	30(7x38)	.010	.038	1 thru 10	1 thru 10		
8594	B-28	28(7x36)	.010	.041	1 thru 10	1 thru 10		
8515	B-26	26(7x34)	.010	.045	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8519	B-24	24(19x36)	.010	.051	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8514	B-24	24(7x32)	.010	.050	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8518	B-22	22(19x34)	.010	.057	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8513	B-22	22(7x30)	.010	.056	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8517	B-20	20(19x32)	.010	.065	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8512	B-20	20(7x28)	.010	.064	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8516	B-18	18(19x30)	.010	.075	9, 14 thru 22	9, 14 thru 22		
8511	B-18	18(7x26)	.010	.074	1 thru 10 14 thru 22	1 thru 10 14 thru 22		
8510	B-16	16(19x29)	.010	.083	1 thru 10 14 thru 22	1 thru 10 14 thru 22		

TYPE C—VINYL & VINYL-NYLON—1000V

VINYL

VINYL-NYLON

Tinned copper, vinyl insulated

Tinned copper, vinyl insulated, Nylon jacket overall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Type	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Temperature Rating	Stock Colors on Standard Spools		Stock Colors
							100'	1000'	
8955	C-24	24(7x32)	Vinyl	.018	.058	105C	9, 14 thru 22	9, 14 thru 22	1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black 14 White/Black 15 White/Red 16 White/Green 17 White/Yellow 18 White/Blue 19 White/Brown 20 White/Orange 21 White/Gray 22 White/Violet
8961	C-24	24(7x32)	Vinyl-Nylon	.018	.064	115C	9, 14 thru 22	9, 14 thru 22	
8954	C-22	22(7x30)	Vinyl	.018	.064	105C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8960	C-22	22(7x30)	Vinyl-Nylon	.018	.070	115C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8953	C-20	20(7x28)	Vinyl	.018	.072	105C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8959	C-20	20(7x28)	Vinyl-Nylon	.018	.078	115C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8952	C-18	18(7x26)	Vinyl	.018	.082	105C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8958	C-18	18(7x26)	Vinyl-Nylon	.018	.089	115C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8951	C-16	16(19x29)	Vinyl	.018	.091	105C	9, 14 thru 22	9, 14 thru 22	
8957	C-16	16(19x29)	Vinyl-Nylon	.018	.098	115C	9, 14 thru 22	9, 14 thru 22	
8950	C-14	14(19x27)	Vinyl	.018	.105	105C	9, 14 thru 22	9, 14 thru 22	
8956	C-14	14(19x27)	Vinyl-Nylon	.018	.114	115C	9, 14 thru 22	9, 14 thru 22	

TYPE D—VINYL—3000V—105C

Tinned copper, vinyl insulated.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors on Standard Spools			Stock Colors
					100'	500'	1000'	
8971	D-22	22(7x30)	.030	.090	1 thru 10	—	1 thru 10	1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black 14 White/Black 15 White/Red 16 White/Green 17 White/Yellow 18 White/Blue 19 White/Brown 20 White/Orange 21 White/Gray 22 White/Violet
8970	D-20	20(7x28)	.030	.098	1 thru 10	—	1 thru 10	
8969	D-18	18(7x26)	.030	.108	1 thru 10	—	1 thru 10	
8968	D-16	16(19x29)	.030	.117	9	—	9	
8967	D-14	14(19x27)	.030	.131	9	—	9	
8966	D-12	12(19x25)	.035	.160	9	—	9	
8965	D-10	10(37x26)	.035	.178	9	—	9	
8964	D-8	8(133x29)	.040	.245	9	9	—	
8963	D-6	6(133x27)	.040	.290	9	9	—	

TYPE E—TFE TEFLON —600V—200C

TYPE EE—TFE TEFLON—1000V—200C

TYPE E 600V—200C

TYPE EE 1000V—200C

Concentrically stranded silver coated copper conductor, extruded TFE Teflon insulated

Trade Number	Type Designation	AWG & (Stranding)	Nom. O.D. (Inch)	Trade Number	Type Designation	AWG & (Stranding)	Nom. O.D. (Inch)	Stock Colors
8300	E-30	30(7x38)	.033	8322	EE-26	26(7x34)	.047	ALL CONSTRUCTIONS: 25, 100, 500 and 1000 ft. spools available in colors 1 thru 10 1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black Color striping available on 1,000 ft. minimum per item each color.
8301	E-28	28(7x36)	.036	8323	EE-24	24(19x36)	.053	
8302	E-26	26(7x34)	.041	8324	EE-24	24(7x32)	.054	
8303	E-24	24(19x36)	.046	8325	EE-22	22(7x30)	.058	
8304	E-24	24(7x32)	.045	8326	EE-22	22(19x34)	.060	
8305	E-22	22(7x30)	.051	8327	EE-20	20(19x32)	.068	
8306	E-22	22(19x34)	.052	8328	EE-20	20(7x28)	.066	
8307	E-20	20(19x32)	.060	8329	EE-18	18(19x30)	.079	
8308	E-20	20(7x28)	.059	8330	EE-16	16(19x29)	.086	
8309	E-18	18(19x30)	.071					
8310	E-16	16(19x29)	.080					

TYPE MW—VINYL & VINYL-NYLON—1000 V

VINYL

VINYL-NYLON



Tinned copper, vinyl insulated, medium wall. The extruded vinyl insulation is flame and ozone-resistant and is inert to most chemicals, oils, and solvents.



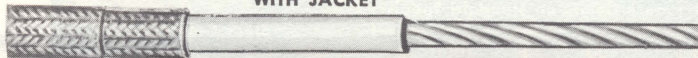
Tinned copper, vinyl insulated. Medium wall, clear nylon jacket overall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Type	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Temperature Rating	Stock Colors on Standard Spools				Stock Colors
							25'	100'	500'	1000'	
8525	MW-C-24-(7)-U	24(7x32)	Vinyl	.017	.058	80C	—	1 thru 30	1 thru 22	1 thru 30	First color in stripe combination is body color and second or third colors are stripes, (White/Black/Red).
8538	MW-C-24-(1)-U	24(Solid)	Vinyl	.017	.054	80C	—	1 thru 30	1 thru 22	1 thru 30	
8524	MW-C-22-(7)-U	22(7x30)	Vinyl	.017	.064	80C	1 thru 13	1 thru 30	1 thru 30	1 thru 30	1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black 11 Tan 12 Pink 13 Dark Blue 14 White/Black 15 White/Red 16 White/Green 17 White/Yellow 18 White/Blue 19 White/Brown 20 White/Orange 21 White/Gray 22 White/Violet 23 White/Black/Red 24 White/Black/Green 25 White/Black/Yellow 26 White/Black/Blue 27 White/Black/Brown 28 White/Black/Orange 29 White/Black/Gray 30 White/Black/Violet
8530	MW-C-22-(1)-U	22(Solid)	Vinyl	.017	.059	80C	1 thru 13	1 thru 30	1 thru 30	1 thru 30	
8537	MW-C-22-(7)-J	22(7x30)	Vinyl-Nylon	.017	.069	90C	—	1 thru 10 14 thru 22	—	1 thru 10 14 thru 22	
8523	MW-C-20-(10)-U	20(10x30)	Vinyl	.017	.070	80C	1 thru 13	1 thru 30	1 thru 30	1 thru 30	
8529	MW-C-20-(1)-U	20(Solid)	Vinyl	.017	.066	80C	1 thru 13	1 thru 30	1 thru 22	1 thru 30	
8536	MW-C-20-(10)-J	20(10x30)	Vinyl-Nylon	.017	.076	90C	—	1 thru 10 14 thru 22	—	1 thru 10 14 thru 22	
8522	MW-C-18-(16)-U	18(16x30)	Vinyl	.017	.080	80C	1 thru 13	1 thru 30	1 thru 30	1 thru 30	
8528	MW-C-18-(1)-U	18(Solid)	Vinyl	.017	.074	80C	—	1 thru 30	1 thru 13	1 thru 30	
8535	MW-C-18-(16)-J	18(16x30)	Vinyl-Nylon	.017	.086	90C	—	1 thru 10 14 thru 22	—	1 thru 10 14 thru 22	
8521	MW-C-16-(26)-U	16(26x30)	Vinyl	.019	.098	80C	—	1 thru 30	1 thru 22	1 thru 30	
8531	MW-C-16-(1)-U	16(Solid)	Vinyl	.017	.085	80C	—	1 thru 30	1 thru 10	1 thru 30	
8534	MW-C-16-(26)-J	16(26x30)	Vinyl-Nylon	.019	.106	90C	—	1 thru 10 14 thru 22	—	1 thru 10 14 thru 22	
8520	MW-C-14-(41)-U	14(41x30)	Vinyl	.020	.111	80C	—	1 thru 30	1 thru 22	1 thru 30	
8533	MW-C-14-(41)-J	14(41x30)	Vinyl-Nylon	.020	.119	90C	—	1, 3, 4, 5, 9, 10	—	1, 3, 4, 5, 9, 10	
8527	MW-C-12-(65)-U	12(65x30)	Vinyl	.020	.130	80C	—	1 thru 30	1 thru 10	1 thru 30	
8532	MW-C-12-(65)-J	12(65x30)	Vinyl-Nylon	.020	.139	90C	—	2, 9, 10	—	2, 9, 10	

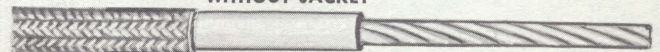
TYPE MW—SHIELDED—WITH & WITHOUT NYLON JACKET —1000V—80C

WITH JACKET

WITHOUT JACKET



Tinned copper, vinyl insulation. Medium wall, tinned copper shield, nylon jacket.



Tinned copper, vinyl insulation. Medium wall, tinned copper shield overall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket	Nom. O.D. (Inch)	Stock Colors on Standard Spools			Stock Colors	
						100'	500'	1000'		
8887	MW-C-24-(7)-S	24(7x32)	.017	None	.082	1 thru 10	—	1 thru 10	1 Brown	6 Light Blue
8883	MW-C-22-(7)-S	22(7x30)	.017	None	.088	1 thru 10	—	1 thru 10	2 Red	7 Violet (purple)
8893	MW-C-22-(7)-SJ	22(7x30)	.017	Nylon	.096	9	9	9	3 Orange	8 Gray (slate)
8886	MW-C-20-(10)-S	20(10x30)	.017	None	.096	1 thru 10	—	1 thru 10	4 Yellow	9 White
8896	MW-C-20-(10)-SJ	20(10x30)	.017	Nylon	.105	9	9	9	5 Green	10 Black
8882	MW-C-18-(16)-S	18(16x30)	.017	None	.105	1 thru 10	—	1 thru 10		
8892	MW-C-18-(16)-SJ	18(16x30)	.017	Nylon	.114	9	9	9		
8884	MW-C-16-(26)-S	16(26x30)	.019	None	.122	1 thru 10	—	1 thru 10		
8894	MW-C-16-(26)-SJ	16(26x30)	.019	Nylon	.132	9	—	9		
8881	MW-C-14-(41)-S	14(41x30)	.020	None	.135	9, 10	—	9, 10		
8880	MW-C-12-(65)-S	12(65x30)	.020	None	.154	9, 10	—	9, 10		

TYPE MW-GLASS BRAID-SHIELDED—1000V—80C



Tinned copper, vinyl insulated. Medium wall, lacquered glass braid, tinned copper shield overall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors on Standard Spools		Stock Color
					100'	1000'	
8863	MW-C-22(7)-BS	22(7x30)	.017	.102	9	9	White only (9)
8862	MW-C-20(10)-BS	20(10x30)	.017	.110	9	9	
8861	MW-C-18(16)-BS	18(16x30)	.017	.119	9	9	
8860	MW-C-16(26)-BS	16(26x30)	.019	.136	9	9	
8859	MW-C-14(41)-BS	14(41x30)	.020	.149	9	9	
8858	MW-C-12(65)-BS	12(65x30)	.020	.168	9	9	

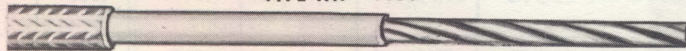
TYPE MW & HW VINYL—GLASS BRAID (OVERALL)—80C

TYPE MW—1000V

TYPE HW—600V



Tinned copper, vinyl insulated. Medium wall, lacquered glass braid overall.



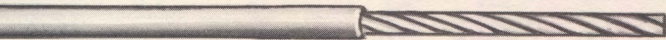
Tinned copper, vinyl insulated. Heavy wall, lacquered glass braid.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Voltage Rating	Stock Colors on Standard Spools			Stock Colors
						100'	500'	1000'	
8566	MW-C-22(7)-B	22(7x30)	.017	.078	1000V	1 thru 10	—	1 thru 10	1 Brown 124 White/Brown 2 Red 125 White/Red 3 Orange 126 White/Orange 4 Yellow 127 White/Yellow 5 Green 128 White/Green 6 Light Blue 129 White/Blue 7 Violet (purple) 130 White/Violet 8 Gray (slate) 131 White/Gray 9 White 132 White/Black 10 Black
8565	MW-C-20(10)-B	20(10x30)	.017	.086	1000V	1 thru 10	—	1 thru 10	
8564	MW-C-18(16)-B	18(16x30)	.017	.095	1000V	1 thru 10 124 thru 132	—	1 thru 10 124 thru 132	
8563	MW-C-16(26)-B	16(26x30)	.019	.112	1000V	1 thru 10 124 thru 132	—	1 thru 10 124 thru 132	
8562	MW-C-14(41)-B	14(41x30)	.020	.125	1000V	9, 124 thru 132	—	9, 124 thru 132	
8561	MW-C-12(65)-B	12(65x30)	.020	.144	1000V	9, 125, 132	—	9, 125, 132	
8591	HW-C-10(105)-B	10(105x30)	.048	.238	600V	9, 125, 132	—	9, 125, 132	
8590	HW-C-8(133)-B	8(133x29)	.048	.279	600V	9	9	—	
8589	HW-C-6(133)-B	6(133x27)	.048	.328	600V	9	9	—	

TYPE LW—VINYL & VINYL-NYLON—300V

VINYL

VINYL-NYLON



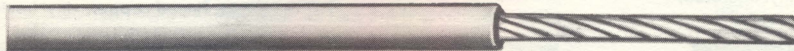
Tinned copper, vinyl insulated. Light wall.



Tinned copper, vinyl insulated. Light wall, clear nylon jacket overall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Type	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Temperature Rating	Stock Colors on Standard Spools		Stock Colors
							100'	1000'	
8572	LW-C-30(7)-U	30(7x38)	Vinyl	.011	.034	80C	1 thru 10	1 thru 10	1 Brown 14 White/Black 2 Red 15 White/Red 3 Orange 16 White/Green 4 Yellow 17 White/Yellow 5 Green 18 White/Blue 6 Light Blue 19 White/Brown 7 Violet (purple) 20 White/Orange 8 Gray (slate) 21 White/Gray 9 White 22 White/Violet 10 Black
8579	LW-C-30(7)-J	30(7x38)	Vinyl-Nylon	.011	.039	90C	1 thru 10	1 thru 10	
8571	LW-C-28(7)-U	28(7x36)	Vinyl	.011	.037	80C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8578	LW-C-28(7)-J	28(7x36)	Vinyl-Nylon	.011	.042	90C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8570	LW-C-26(7)-U	26(7x34)	Vinyl	.011	.041	80C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8577	LW-C-26(7)-J	26(7x34)	Vinyl-Nylon	.011	.046	90C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8569	LW-C-24(7)-U	24(7x32)	Vinyl	.011	.046	80C	1 thru 19	1 thru 19	
8576	LW-C-24(7)-J	24(7x32)	Vinyl-Nylon	.011	.051	90C	1 thru 19	1 thru 19	
8568	LW-C-22(7)-U	22(7x30)	Vinyl	.012	.054	80C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8575	LW-C-22(7)-J	22(7x30)	Vinyl-Nylon	.012	.059	90C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8567	LW-C-20(10)-U	20(10x30)	Vinyl	.012	.060	80C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	
8574	LW-C-20(10)-J	20(10x30)	Vinyl-Nylon	.012	.065	90C	1 thru 10 14 thru 22	1 thru 10 14 thru 22	

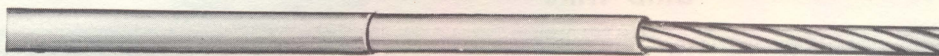
TYPE HW—VINYL—Gauges 16-22 2500V, Gauges 6-14 600V—80C



Tinned copper, vinyl insulated. Heavy wall.

Trade Number	Type Designation	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors on Standard Spools			Stock Colors	
					100'	500'	1000'		
8588	HW-C-22(7)-U	22(7x30)	.034	.098	1 thru 10	—	1 thru 10	1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Light Blue 7 Violet (purple) 8 Gray (slate) 9 White 10 Black	
8587	HW-C-20(7)-U	20(10x30)	.034	.104	1 thru 10	—	1 thru 10		
8586	HW-C-18(16)-U	18(16x30)	.034	.115	1 thru 10	—	1 thru 10		
8585	HW-C-16(19)-U	16(26x30)	.034	.128	2, 9, 10	—	2, 9, 10		
8584	HW-C-14(19)-U	14(41x30)	.048	.171	2, 9, 10	—	2, 9, 10		
8583	HW-C-12(19)-U	12(65x30)	.048	.191	2, 9, 10	—	2, 9, 10		
8582	HW-C-10(37)-U	10(105x30)	.048	.220	2, 9, 10	—	2, 9, 10		
8581	HW-C-8(127)-U	8(133x29)	.048	.261	2, 9, 10	2, 9, 10	—		
8580	HW-C-6(127)-U	6(133x27)	.048	.310	2, 9, 10	2, 9, 10	—		

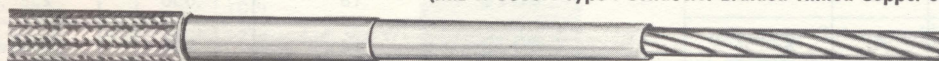
MIL-W-5086A—TYPES 1 & 2—600V



UNSHIELDED

Trade Number	MIL Type Designation	AWG & (Stranding)	Nom. O.D. (Inch)	Spec. Type	Stock Colors on Standard Spools			Stock Color
					100'	500'	1000'	
8541	AN-22	22(19x34)	.068	No. 1	9	—	9	White only (9) Additional Description MIL-W-5086A-Type I AN-22 thru AN-12. Stranded tinned copper, white vinyl, clear nylon jacket insulation.
8542	AN-20	20(19x32)	.078	No. 1	9	—	9	
8543	AN-18	18(19x30)	.088	No. 1	9	—	9	
8544	AN-16	16(19x29)	.098	No. 1	9	—	9	
8545	AN-14	14(19x27)	.117	No. 1	9	9	9	
8546	AN-12	12(19x25)	.137	No. 1	9	9	9	
8559	AN-22	22(19x34)	.075	No. 2	9	—	9	MIL-W-5086A-Type II AN-22 thru AN-12 Stranded tinned copper, white vinyl insulation, saturated glass braid, clear nylon jacket.
8558	AN-20	20(19x32)	.085	No. 2	9	—	9	
8557	AN-18	18(19x30)	.095	No. 2	9	—	9	
8556	AN-16	16(19x29)	.105	No. 2	9	—	9	
8555	AN-14	14(19x27)	.125	No. 2	9	9	9	
8554	AN-12	12(19x25)	.143	No. 2	9	9	9	
8553	AN-10	10(49x27)	.190	No. 2	9	9	9	MIL-W-5086A-Type II AN-10 thru AN-00 Stranded tinned copper, white vinyl insulation, saturated glass braid, nylon braid, nylon lacquer.
8552	AN-8	8(133x29)	.240	No. 2	9	9	—	
8551	AN-6	6(133x27)	.293	No. 2	9	9	—	
8550	AN-4	4(133x25)	.355	No. 2	9	9	—	
8549	AN-2	2(665x30)	.425	No. 2	9	—	—	
8548	AN-0	0(1045x30)	.525	No. 2	9	—	—	
8547	AN-00	00(1330x30)	.590	No. 2	9	—	—	


MIL-C-7078A—TYPE 1—600 VOLT
(MIL-W-5086A Type I Conductor Braided Tinned Copper Shield)



Trade Number	MIL Type Designation	AWG & (Stranding)	Nom. O.D. (Inch)	Spec. Type	Stock Colors on Standard Spools			Stock Color
					100'	500'	1000'	
8855	AN-22	22(19x34)	.092	No. 1	9	—	9	White only (9) Additional Description Stranded tinned copper, white vinyl insulation, nylon jacket, braided tinned copper shield.
8854	AN-20	20(19x32)	.102	No. 1	9	—	9	
8853	AN-18	18(19x30)	.112	No. 1	9	—	9	
8852	AN-16	16(19x29)	.122	No. 1	9	9	—	
8851	AN-14	14(19x27)	.141	No. 1	9	—	—	
8850	AN-12	12(19x25)	.156	No. 1	9	—	—	

UL TYPE HOOK-UP AND LEAD WIRES

UL-600V-90C (CSA-TYPE TRB)

 Tinned copper, vinyl insulated, cotton braid, lacquered

Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors	Standard Spool Lengths in ft
8937	22(7x30)	.016	.091	1, 2, 3, 4, 5, 9, 10, 13	100, 1000
8936	20(10x30)	.017	.098	1, 2, 3, 4, 5, 9, 10, 13	100, 1000
8935	18(16x30)	.017	.113	1, 2, 3, 4, 5, 9, 10, 13	100, 1000
8934	16(26x30)	.017	.126	1, 2, 3, 4, 5, 9, 10, 13	100, 500
8933	14(41x30)	.031	.177	1, 2, 3, 4, 5, 9, 10, 13	100, 500

For color coding see Page 25.

UL rated 600V for electronic circuits only—300V for other applications.

UL-600V-105C (CSA-600V-TYPE TEW)


 Tinned copper, vinyl insulated.

Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Stock Colors	Standard Spool Lengths in ft
8920	22(7x30)	.031	.095	1, 2, 3, 4, 5, 9, 10, 13	100, 1000
8919	20(10x30)	.031	.102	1, 2, 3, 4, 5, 9, 10, 13	100, 1000
8918	18(16x30)	.031	.112	1, 2, 3, 4, 5, 9, 10, 13	100, 1000
8917	16(26x30)	.031	.126	1, 2, 3, 4, 5, 9, 10, 13	100, 500
8916	14(41x30)	.031	.141	1, 2, 3, 4, 5, 9, 10, 13	100, 500

For color coding see Page 25.

UL rated 2500 volts peak for electronic circuits.

GRID WIRE

Description	Trade Number	AWG & Stranding	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Suggested Working Voltage	Breakdown Voltage	Nom. Cap. (mmf/ft)	Standard Spool Lengths in ft
 Tinned copper, rubber insulated, cellulose acetate braid, lacquered, tinned copper braid shield.	8885	20(10x30)	.015	.117	300	4000	80	15, 25, 100, 500

Tinned copper, rubber insulated, cellulose acetate braid, lacquered, tinned copper braid shield.

SHIELDING AND BONDING CABLES



Can be manufactured to conform to QQB575.

Braided tinned copper.
Standard Spool: 10, 50, 250 feet

Trade Number	Stranding	Approx. Cir. Mil. Area	Nom. I.D. (Inch)	Approx. Flat Dimension (Inch)
8676	16x36	400	1/32	.025x .035
8674	24x36	600	3/64	.030x .045
8660	96x34	3,800	1/8	.050x .150
8668	120x34	4,700	1 1/64	.060x .205
8663	168x34	6,700	1/4	.060x .275
8661	192x34	7,600	3/8	.060x .310
8669	336x34	13,300	1/2	.060x .520
8672	528x36	13,200	5/8	.040x .580
8662	576x34	22,900	25/32	.100x .590
8670	480x30	48,000	3/4	.125x .750
8671	832x36	20,800	1	.050x1.000

This braided cable will provide approximately 90% shield coverage when applied over the recommended diameter.

For additional sizes, see current BRAIDED AND STRANDED COPPER CABLE CATALOG.

BUS BAR WIRE

Made in accordance with Federal Spec QQ-W-343.



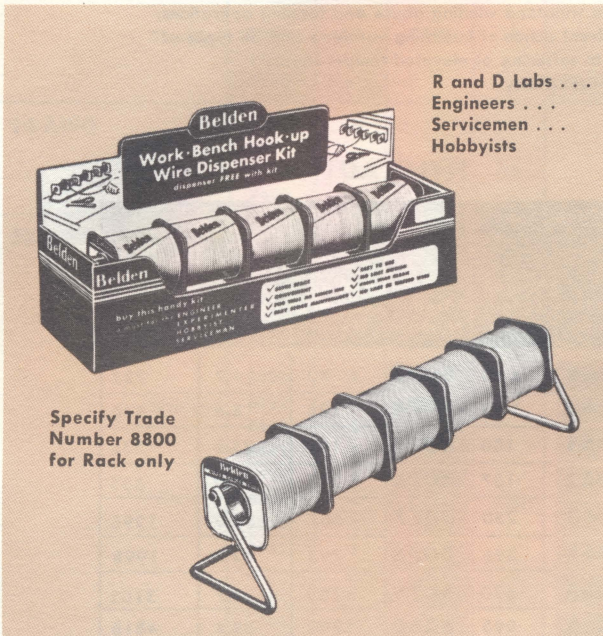
Solid tinned copper.
Standard Spool: 100, 1000 feet

Trade Number	AWG	Nom. O.D. (Inch)	Circular Mil. Area
8027	34	.006	39.7
8026	32	.008	64.0
8025	30	.010	100.0
8024	28	.012	159.0
8023	26	.016	253.0
8022	24	.020	404.0
8021	22	.025	640.0
8020	20	.032	1020.0
8019	18	.040	1620.0
8013	16	.050	2580.0
8012	14	.064	4110.0
8011	12	.080	6530.0

8011 Available in 100' spool only.

8026 and 8027 Available in 1000' spool only.

KITS—HOOK-UP WIRE ON RACKS



Each kit contains an assortment of Hook-Up Wire colors and types plus a portable metal dispenser rack for workbench or wall mounting. The dispenser rack provides a complete, compact, and convenient wire department for every working area.

Trade Number	No. of Spools	Spool Lengths	Type of Wire	Colors in Kit
8818	8	25'	20 solid, cellulose acetate (8941-25)	1, 2, 3, 4, 5, 6, 9, 10
8819	5	100'	20 solid, cellulose acetate (8941-100)	2, 5, 6, 9, 10
8820	8	25'	20 stranded, cellulose acetate (8943-25)	1, 2, 3, 4, 5, 6, 9, 10
8821	5	100'	20 stranded, cellulose acetate (8943-100)	2, 5, 6, 9, 10
8822	10	25'	20 solid, Type MW vinyl (8529-25)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
8823	5	100'	20 solid, Type MW vinyl (8529-100)	2, 5, 6, 9, 10
8824	8	25'	20 stranded, Type MW vinyl (8523-25)	1, 2, 3, 4, 5, 6, 9, 10
8825	5	100'	20 stranded, MIL-W-16878D vinyl (8507-100)	9, 14, 15, 16, 17
8826	5	100'	22 stranded, MIL-W-16878D vinyl (8508-100)	9, 14, 15, 16, 17
8827	5	100'	22 stranded, MIL-W-16878D vinyl-nylon (8518-100)	2, 5, 6, 9, 10

See opposite column for color coding.

GENERAL-PURPOSE HOOK-UP WIRES

Tinned copper, cellulose acetate wrap, cellulose acetate braid lacquered.
Nom. d-c Insulation Resistance—200 megohms/ft. Nom. Breakdown Voltage—1000.

Trade Number	AWG & (Stranding)	Nom. O.D. (Inch)	Stock Colors	Standard Spool Lengths in ft
8941	20(Solid)	.072	1, 2, 3, 4, 5, 6, 9, 10 2, 4, 5, 6, 9, 10	25 100, 1000
8943	20(10x30)	.076	1, 2, 3, 4, 5, 6, 9, 10 2, 4, 5, 6, 9, 10 2, 4, 5, 6, 10	25 100 1000
8945	18(Solid)	.080	2, 4, 5, 6, 9, 10 10	100 1000
8947	18(16x30)	.087	2, 4, 5, 6, 9, 10 10	100 1000
8942	16(26x30)	.099	2, 10	100, 1000
8938	14(41x30)	.115	2, 10	100

STOCK COLORS

First color in stripe combination is body color and second or third colors are stripes (White/Black/Red)

1 Brown	7 Violet (purple)	13 Dark Blue
2 Red	8 Gray (slate)	14 White/Black
3 Orange	9 White	15 White/Red
4 Yellow	10 Black	16 White/Green
5 Green	11 Tan	17 White/Yellow
6 Light Blue	12 Pink	

ANTENNA WIRE

Stranded bare copper.

Trade Number	AWG & (Stranding)	Nom. O.D. (Inch)	Standard Spool Lengths in ft
8002	16(7x24)	.060	50, 75, 100
8000	14(7x22)	.076	50, 75, 100, 1000

Copper, HF Formvar insulated.

8009	14(Solid)	.067	100, 200, 500
8008	12(Solid)	.084	100, 200, 500

INDOOR ANTENNA WIRE

Tinned copper, chrome vinyl insulated.

Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Standard Spool Lengths in ft
8014	25(13x36)	.010	.044	25, 500

LITZ WIRE

Copper, Celenamel^{††} insulated, nylon wrap.

Trade Number	Stranding	Nom. O.D. (Inch)	Standard Spool Lengths in ft
8817	5x44	.008	100

†† Belden Trademark—Reg. U.S. Pat. Off.

magnet wire mobile communications cable for marine and automotive



Nylclad magnet wire combines the most desirable features of Formvar with the well-known toughness and solvent resistance of Nylon enamel.

For difficult and exacting windings, these plus values may represent the difference between low and high rejections.

Nylclad will out-perform all other A.I.E.E., Class A, film-coated wires with respect to: (1) ability to withstand winding abuse and forming operations; (2) resistance to the solvent action of insulating varnishes and all types of thinners; (3) resistance to softening at elevated temperatures; (4) solvent crazing; (5) windability.

BELDENAMEL††

Size	¼ Pound Spool		½ Pound Spool		Turns per Linear Inch	Turns per Square Inch
	Trade Number	Approx. Length (Feet)	Trade Number	Approx. Length (Feet)		
14			8047	40	15.2	231
16			8048	63	19.1	365
18			8049	100	23.9	571
20			8050	160	29.9	894
22			8051	254	37.4	1399
24			8052	404	46.9	2200
26			8053	645	59.0	3481
28	8040	510	8054	1020	73.8	5446
30	8041	807	8055	1615	92.2	8501
32	8042	1257	8056	2515	114.0	12996
34	8043	2030	8057	4060	144.0	20736
36	8044	3200	8058	6400	180.0	32400
38	8045	5070			225.0	50625
40	8046	8050			290.0	84100

NYLCLAD††

Size	½ Pound Spool		1 Pound Spool		Turns per Linear Inch	Turns per Square Inch
	Trade Number	Approx. Length (Feet)	Trade Number	Approx. Length (Feet)		
14	8059	40	8073	80	14.9	222
16	8060	63	8074	126	18.6	346
18	8061	100	8075	199	23.2	538
20	8062	157	8076	315	28.9	835
22	8063	250	8077	501	36.0	1296
24	8064	396	8078	793	44.7	1998
26	8065	630	8079	1260	55.7	3102
28	8066	995	8080	1990	69.4	4816
30	8067	1570	8081	3140	86.2	7430
32	8068	2440	8082	4880	106.0	11236
34	8069	3930	8083	7860	133.0	17689
36	8070	6200	8084	12400	167.0	27889
38	8071	9700	8085	19400	206.0	42436
40	8072	16050	8086	32100	263.0	69169

PRIMARY WIRE—MARINE AND AUTO

S.A.E. TYPE G.P.T.

Bare copper, vinyl insulated.

Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Color	Standard Spool
8685	16 (19x29)	.023	.102	Black	100
8684	14 (19x27)	.023	.117	Green	100
8683	12 (19x25)	.026	.142	Red	100
8682	10 (19x23)	.031	.175	White	100
8681	8 (19x21)	.037	.219	Chrome	100
8680	6 (37x21)	.043	.290	Chrome	100

DUPLEX PRIMARY WIRE

Tinned copper, vinyl insulated, conductors parallel, chrome vinyl jacket.

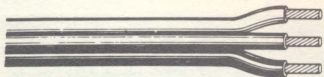


Standard Spools: 100 and 500 feet

Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Jacket Thickness (Inch)	Nom. O.D. (Inch)	Color Coding
8677	16 (19x29)	.032	.022	.164 x .276	Brn, Red
8675	14 (19x27)	.037	.022	.189 x .326	Brn, Red
8673	12 (19x25)	.040	.022	.213 x .384	Brn, Red
NEW 8678	10 (19x23)	.040	.025	.243 x .436	Brn, Red

3 & 4 CONDUCTOR PARALLEL BONDED PRIMARY WIRE

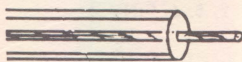
Bare copper, vinyl insulated.



Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Color Coding	Standard Spool
8475	16-3 19x29	.023	.102x .295	Wht/Brn Red	100, 500
8476	16-4 19x29	.023	.102x .400	Wht/Brn Yel/Grn	100, 500

7 MM IGNITION WIRE

Tinned Copperweld, POLYSIL†† clear plastic insulation.



Standard Spool: 100 feet

Trade Number	AWG & (Stranding)	Insulation Thickness (Inch)	Nom. O.D. (Inch)	Color
8666	20 (7x28)	.121	.278	Clear

Conforms to SAE and Outboard Industries Association Color Coding for boat trailers.

†† Belden Trademark—Reg. U.S. Pat. Off.

No. of Conductors	2 Condr.		3 Condr.		4 Condr.		5 Condr.		6 Condr.		7 Condr.		8 Condr.			
	Belden No.	Page No.	Belden No.	Page No.	Belden No.	Page No.	Belden No.	Page No.	Belden No.	Page No.	Belden No.	Page No.	Belden No.	Page No.		
25 AWG or Smaller		8430	12													
	Shielded	8429	12	8419	12											
		8416	12													
		8640	3 & 5			8434	4			8642	5					
24 AWG		8782	8													
	Shielded	8413	10	8406	10											
		8420	10													
22 AWG		8481	8	8443	8 & 9	8741	7	8445	9	8742	8	8447*	9	8757	7	
		8740	7 & 8	8794	9	8444	9			8446*	9			8488	15	
		8442	8	8701	8	8494	11							8448*	9	
		8285	14													
		8781	8													
	Shielded	8390	3	8391	4	8392	4									
		8422	10	8735	4											
		8437	3													
		8441	3													
		8738	3													
		8436	3	8731	4											
		8739	3													
		8737	3													
		8450	3	8771	4	8723	4			8767	6					
		8451	3	8733	5					8777	6					
8761	3															
20 AWG		8205	8			8464	14 & 15	8455*	12					8725	6	
		8275	14			8484	15	8485	15							
		8230	14					8463	14 & 15							
		8225	14													
		8226	14													
		8222	15													
	Shielded	8412	10	8423	10	8424	4 & 10	8425	10	8426	10	8427	10	8418	10	
		8758	3	8403	10	8404	4 & 10	8405	10							
		8227	15													
		8414	10													
		8759	3													
		8762	3	8772	4											
18 AWG		8462	12	8453	12	8454	12	8465	9	8690	7	8467	9			
		8888	12	8483#	8											
		8452	12	8493#	8											
		8478	12	8487#	8											
		8460	3 & 8													
		8461	8													
		8235	14													
		8482#	8													
		8492#	8													
		8486#	8													
	Shielded	8428	10													
		8208	3													
		8209	3													
		8789	3													
		8790	3	8791	4											
8760		3	8770	4												
16 AWG		8470	8	8475	8 & 26	8476	26					8621	9			
		8471	8	8719	3	8620	9									
		8472	12													
		8677	26													
	Shielded	8779	3			8407	4 & 10									
		8780	3													
14 AWG		8473	8	8720	3	8627	9					8628	9			
		8474	12													
		8675	26													

THE CABLE FINDER CHART

Match the desired "Number of Conductors" column with the required "Conductor Size" to find the applicable Belden Trade Number and its catalog page.

Within the box, the color coding signifies: **White:** No Shield; **Orange:** Braided Copper Shield; **Lt. Tan:** Spiraled Tinned Copper Shield; **Tan:** Patented BELDFOIL Shield.

For cables with more than 8 conductors, see Multiple pair and unpaired unshielded cables on pages 5, 7 & 9, Multiple pair individually shielded on pages 4, 5 & 6. For cables combining shielded and unshielded conductors, see Special Sound and Audio cables and Coin operated phonograph cables on page 5.

*2 Conductors are 18 AWG
#19 AWG

Unshielded
 Braid Shield
 Spiral Shield
 Beldfoil Shield

BELDEN Trade No.	Page	BELDEN Trade No.	Page	BELDEN Trade No.	Page	BELDEN Trade No.	Page	BELDEN Trade No.	Page	BELDEN Trade No.	Page	BELDEN Trade No.	Page	BELDEN Trade No.	Page
8000	25	8209	3	8327	20	*8466	9	8537	21	*8622	9	8754	7	8870	18
8002	25	8210	15	8328	20	8467	9	8538	21	*8623	9	8755	7	*8873	15
8008	25	8211	18	8329	20	*8468	9	8541	23	*8624	9	8756	7	8874	15
8009	25	8212	18	8330	20	8469	9	8542	23	*8627	9	8757	7	8875	15
8011	24	8213	18	*8390	3	8470	8	8543	23	*8628	9	8758	3	8878	12
8012	24	8214	17	*8391	4	8471	8	8544	23	*8629	9	8759	3	8879	12
8013	24	8215	18	*8392	4	8472	12	8545	23	8640	3&5	8760	3	8880	21
8014	25	8216	16	8401	10	8473	8	8546	23	8642	5	8761	3	8881	21
8018	15	8217	18	8403	10	8474	12	8547	23	8660	24	8762	3	8882	21
8019	24	8222	15	8404	4&10	8475	8 & 26	8548	23	8661	24	8763	5	8883	21
8020	24	8225	14	8405	10	8476	26	8549	23	8662	24	8764	6	8884	21
8021	24	8226	14	8406	10	8478	12	8550	23	8663	24	8765	6	8885	24
8022	24	8227	15	8407	4&10	8481	8	8551	23	8666	26	8766	6	8886	21
8023	24	8230	14	8409	11	8482	8	8552	23	8668	24	8767	6	8887	21
8024	24	8232	18	8410	10	8483	8	8553	23	8669	24	8768	6	8888	12
8025	24														
8026	24	8233	18	8411	10	8484	15	8554	23	8670	24	8769	6	8889	15
8027	24	8235	14	8412	10	8485	15	8555	23	8671	24	8770	4	*8890	12
8040	26	8237	16	8413	10	8486	8	8556	23	8672	24	8771	4	8892	21
8041	26	8238	16	8414	10	8487	8	8557	23	8673	26	8772	4	8893	21
8042	26	8239	16	8415	11	8488	15	8558	23	8674	24	8773	6	8894	21
8043	26														
8044	26	8240	16	8416	12	8491	11	8559	23	8675	26	8774	6	8895	15
8045	26	8241	16	8417	12	8492	8	8561	22	8676	24	8775	6	8896	21
8046	26	8242	16	8418	10	8493	8	8562	22	8677	26	8776	6	8897	12
8047	26	*8243	16	8419	12	8494	11	8563	22	*8678	26	8777	6	8898	12
8048	26	8245	16	8420	10	8495	11	8564	22	8680	26	8778	6	8899	12
8049	26	8254	16	8421	12	8497	11	8565	22	8681	26	8779	3	8916	24
8050	26	*8255	16	8422	10	8498	11	8566	22	8682	26	8780	3	8917	24
8051	26	8257	16	8423	10	8499	11	8567	22	8683	26	8781	8	8918	24
8052	26	*8258	16	8424	4&10	8500	19	8568	22	8684	26	8782	8	8919	24
8053	26	8259	16	8425	10	8501	19	8569	22	8685	26	8783	5	8920	24
8054	26	8261	16	8426	10	8502	19	8570	22	*8690	7	8784	5	8933	24
8055	26	8262	16	8427	10	8503	19	8571	22	*8691	7	8786	5	8934	24
8056	26	8263	16	8428	10	8504	19	8572	22	*8692	7	8787	5	8935	24
8057	26	8264	16	8429	12	8505	19	8574	22	8700	6	8788	5	8936	24
8058	26	*8265	17	8430	12	8506	19			8701	8	8789	3	8937	24
8059	26	*8266	17	8431	12	8507	19	8575	22	*8719	3	8790	3		
8060	26	8267	17	8434	4	8508	19	8576	22	*8720	3	8791	4	8938	25
8061	26	*8268	17	8436	3	8509	19	8577	22	8722	4	8794	9	8941	25
8062	26	*8269	17	8437	3	8510	19	8578	22	8723	4	8800	25	8942	25
8063	26	*8270	17	8441	3	8511	19	8579	22	8724	4	8817	25	8943	25
8064	26	8275	14	8442	8	8512	19	8580	23	*8725	6	8818	25	8945	25
8065	26	*8279	13	8443	8&9	8513	19	8581	23	*8726	4	8819	25	8947	25
8066	26	8280	13	8444	9	8514	19	8582	23	*8727	4	8820	25	8950	20
8067	26	8281	13	8445	9	8515	19	8583	23	8731	4	8821	25	8951	20
8068	26	8282	13	8446	9	8516	19	8584	23	8732	4	8822	25	8952	20
8069	26	8283	13	8447	9	8517	19	8585	23	8733	5	8823	25	8953	20
8070	26	8284	13	8448	9	8518	19	8586	23	8734	5	8824	25	8954	20
8071	26	8285	14	8449	9	8519	19	8587	23	8735	4	8825	25	8955	20
8072	26	*8299	13	8450	3	8520	21	8588	23	8737	3	8826	25	8956	20
8073	26	8300	20	8451	3	8521	21	8589	22	8738	3	8827	25	8957	20
8074	26	8301	20	8452	12	8522	21	8590	22	8739	3	8850	23	8958	20
8075	26	8302	20	8453	12	8523	21	8591	22	8740	7&8	8851	23	8959	20
8076	26	8303	20	8454	12	8524	21	8594	19	8741	7	8852	23	8960	20
8077	26	8304	20	8455	12	8525	21	8595	19	8742	7	8853	23	8961	20
8078	26	8305	20	8456	9	8527	21	8596	19	8743	7	8854	23	8963	20
8079	26	8306	20	8457	9	8528	21	8597	19	8744	7	8855	23	8964	20
8080	26	8307	20	*8458	9	8529	21	8598	19	8745	7	8858	22	8965	20
8081	26	8308	20	*8459	9	8530	21	8599	19	8746	7	8859	22	8966	20
8082	26	8309	20	8460	3&8	8531	21	8601	11	8747	7	8860	22	8967	20
8083	26	8310	20	8461	8	8532	21	8602	11	8748	7	8861	22	8968	20
8084	26	8322	20	8462	12	8533	21	8603	11	8749	7	8862	22	8969	20
8085	26	8323	20	*8463	14&15	8534	21	8604	11	8750	7	8863	22	8970	20
8086	26	8324	20	8464	14&15	8535	21	*8620	9	8751	7	8868	18	8971	20
8205	8	8325	20	8465	9	8536	21	*8621	9	8753	7	8869	18		
8208	3	8326	20												