

Variable Frequency Drive (VFD) Cable Solutions

Be Certain with Belden —
the Original Developer of
High Quality Performance
VFD Cable



Featured Brand

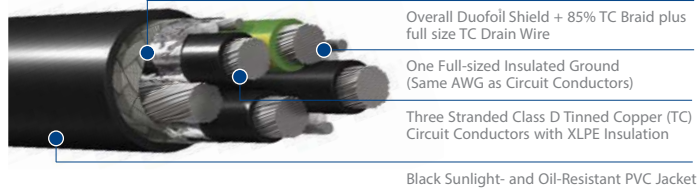
BELDEN

Belden offers the most extensive line of VFD cables, as well as a total commitment to meet your product availability, product integrity and service needs

Belden Classic Foil/Braid Design VFD Cable with Full-size Insulated Ground

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29500	16	26 x 30	1000††	304.8	185.0	83.9	.53	13.46	128	570	4.3	109.2
29501	14	41 x 30	1000††	304.8	235.0	106.6	.60	15.24	212	943	4.8	121.9
29502	12	65 x 30	1000††	304.8	298.0	135.2	.65	16.51	336	1495	5.2	132.0
29503	10	105 x 30	1000††	304.8	396.0	179.6	.69	17.53	592	2634	5.5	139.7
29504	8	7 x 19 x 29	1000††	304.8	680.0	308.4	.93	23.62	768	3418	7.5	190.5
29505	6	7 x 19 x 27	1000††	304.8	906.0	411.3	1.02	25.91	1220	5429	8.2	203.2
29506	4	7 x 19 x 25	1000††	304.8	1227.0	556.6	1.16	29.46	1940	8633	9.3	236.2
29507	2	7 x 19 x 23	1000††	304.8	1766.0	801.0	1.31	33.27	3088	13742	10.8	273.1

††Final put-up may vary ±10% from length shown.

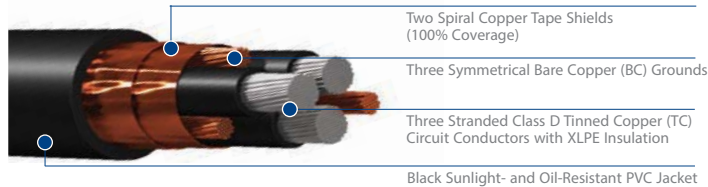


- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved
- C(UL) 600V Type CIC TC

Belden Classic Symmetrical Design VFD Cable, Large AWG

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29528	1	7 x 19 x 22	1000†	304.8	1610.0	730.3	1.20	30.48	2650	11788	12.0	304.8
29529	1/0	7 x 19 x 21	1000†	304.8	2013.0	913.1	1.29	32.77	3537	15733	12.9	327.7
29530	2/0	7 x 19 x 20	1000†	304.8	2318.0	1051.4	1.40	35.56	4200	18682	14.0	355.6
29531	3/0	7 x 19 x 19	1000†	304.8	2708.0	1229.4	1.52	38.61	5025	22352	15.2	386.1
29532	4/0	7 x 19 x 18	500†	152.4	1717.0	778.8	1.68	42.67	6670	29670	16.8	426.7

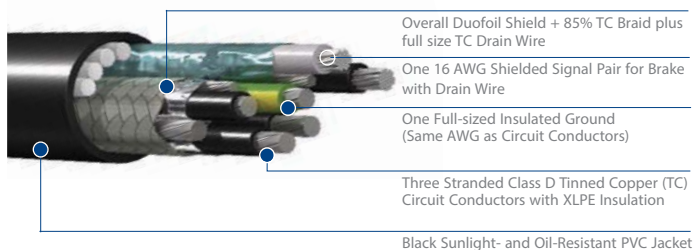
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- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved
- C(UL) 600V Type RW90 TC

Belden Classic Foil/Braid Design VFD Cable with Signal Pair

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29510	Circuit Cond 16 Signal Pair 16	26 x 30	1000	304.8	324.0	147.0	.75	19.05	272	1210	7.5	190.5
29511	Circuit Cond 14 Signal Pair 16	26 x 30	1000	304.8	340.0	154.2	.82	20.83	368	1638	8.2	208.3
29512	Circuit Cond 12 Signal Pair 16	26 x 30	1000	304.8	438.0	198.7	.90	22.86	527	2345	9.0	228.6
29513	Circuit Cond 10 Signal Pair 16	26 x 30	1000	304.8	563.0	255.4	.99	25.15	718	3195	9.9	251.5



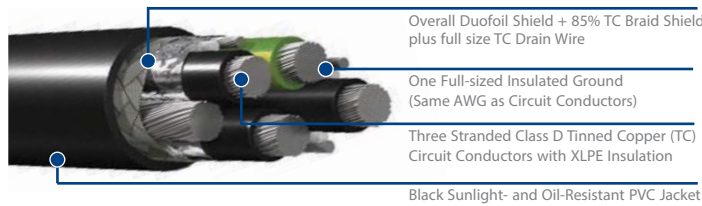
- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved
- C(UL) 600V Type CIC TC

* Numerous put-up options available.

Belden Classic Foil/Braid Design 2kV VFD Cable (Rated to 2000V)

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29536	14	41 x 30	1000††	304.8	338.0	153.3	.68	17.30	212	943	6.8	172.72
29537	12	65 x 30	1000††	304.8	401.0	181.9	.72	18.30	336	1495	7.3	185.42
29538	10	105 x 30	1000††	304.8	481.0	218.2	.79	20.10	592	2634	7.9	200.70
29539	8	7 x 19 x 29	1000††	304.8	754.0	342.0	.96	24.40	768	3418	9.6	243.84
29540	6	7 x 19 x 27	1000††	304.8	926.0	420.0	1.07	26.92	1220	5429	10.6	269.24
29541	4	7 x 19 x 25	1000††	304.8	1284.0	582.4	1.21	30.50	1940	8633	12.1	307.34
29542	2	7 x 19 x 23	1000††	304.8	1756.0	796.5	1.36	34.54	3088	13742	13.6	345.44

††Final put-up may vary ±10% from length shown.

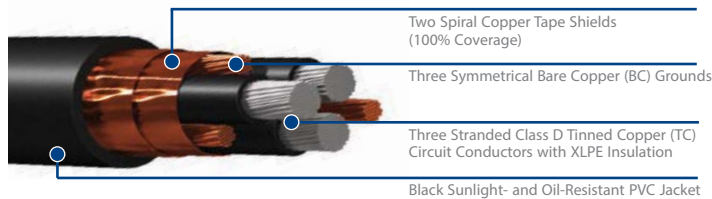


- 1000V UL Flexible Motor Supply
- 2000V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- C(UL) 600V Type CIC TC

Belden Classic Symmetrical Design 2kV VFD Cable, Large AWG (Rated to 2000V)

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29543	1	7 x 19 x 22	1000†	304.8	1693.0	767.9	1.36	34.54	2650	11788	13.6	345.44
29544	1/0	7 x 19 x 21	1000†	304.8	2056.0	932.6	1.45	36.83	3537	15733	14.5	368.30
29545	2/0	7 x 19 x 20	1000†	304.8	2389.0	1083.6	1.56	39.62	4200	18682	15.6	396.24
29546	3/0	7 x 19 x 19	1000†	304.8	2989.0	1355.8	1.75	44.50	5025	22352	17.5	444.50
29547	4/0	7 x 19 x 18	500†	152.4	1902.5	863.0	1.88	47.80	6670	29670	18.8	477.52

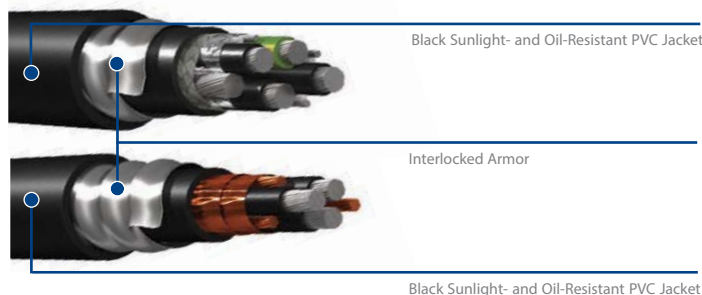
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- 1000V UL Flexible Motor Supply
- 2000V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved
- C(UL) 2000V Type RW90 TC

Belden Classic Foil/Braid & Symmetrical VFD Cable with Interlocked Armor

AWG Size	16	14	12	10	8	6	4	2	1	1/0	2/0	3/0	4/0
AL Armor Part Number	1229500	1229501	1229502	1229503	1229504	1229505	1229506	1229507	1229528	1229529	1229530	1229531	1229532
Steel Armor Part Number	1329500	1329501	1329502	1329503	1329504	1329505	1329506	1329507	1329528	1329529	1329530	1329531	1329532
Min. Order	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1500
Max. Length	6000	5000	5000	5000	5000	3500	3000	2000	3000	2000	2000	2000	1500



- 600V UL 1277 Type MC per 2005 NEC Article 330
- CSA FT4
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors (16 to 2 AWG)
- XHHW-2 rated circuit conductors (1 to 4/0 AWG)
- 90°C Wet/Dry
- Suitable for Class I & II, Division 2 hazardous locations
- IEEE 1202/383
- RoHS compliant
- CE approved

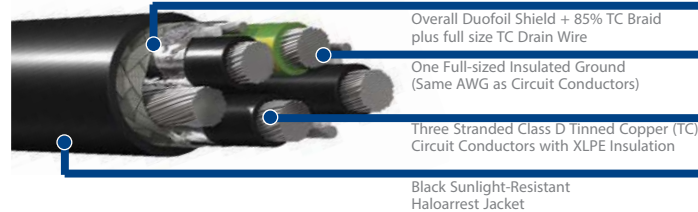
Be Certain with Belden



Belden Classic Foil/Braid Design VFD Cable (Low Smoke Zero Halogen)

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29500T	16	26 x 30	1000††	304.8	191.0	86.6	.53	13.46	128	570	4.3	109.2
29501T	14	41 x 30	1000††	304.8	243.0	110.2	.60	15.24	212	943	4.8	121.9
29502T	12	65 x 30	1000††	304.8	306.0	138.8	.65	16.51	336	1495	5.2	132.0
29503T	10	105 x 30	1000††	304.8	405.0	183.7	.69	17.53	592	2634	5.5	139.7
29504T	8	7 x 19 x 29	1000††	304.8	696.0	315.7	.93	23.62	768	3418	7.5	190.5
29505T	6	7 x 19 x 27	1000††	304.8	924.0	419.1	1.02	25.91	1220	5429	8.2	203.2
29506T	4	7 x 19 x 25	1000††	304.8	1248.0	566.1	1.16	29.46	1940	8633	9.3	236.2
29507T	2	7 x 19 x 23	1000††	304.8	1789.0	811.5	1.31	33.27	3088	13742	10.8	273.1

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- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved

Belden Classic Symmetrical Design VFD Cable, Large AWG (Low Smoke Zero Halogen)

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29528T	1	7 x 19 x 22	1000†	304.8	1621.0	735.3	1.20	30.48	2650	11788	12.0	304.8
29529T	1/0	7 x 19 x 21	1000†	304.8	2025.0	918.5	1.29	32.77	3537	15733	12.9	327.7
29530T	2/0	7 x 19 x 20	1000†	304.8	2331.0	1057.3	1.40	35.56	4200	18682	14.0	355.6
29531T	3/0	7 x 19 x 19	1000†	304.8	2722.0	1234.7	1.52	38.61	5025	22352	15.2	386.1
29532T	4/0	7 x 19 x 18	500†	152.4	1725.0	782.4	1.68	42.67	6670	29670	16.8	426.7

†Final put-up may vary ± 5% from length shown.

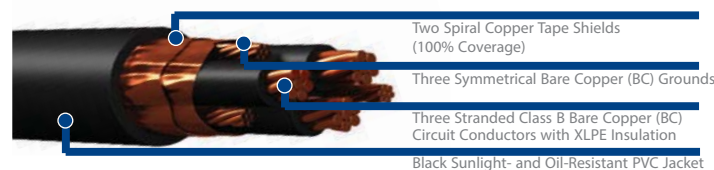


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- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
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Belden Symmetrical Design VFD Cable Basics

Part No.	AWG	Cond. Stranding	Standard Lengths*		Standard Unit Wt.		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
			Ft.	m	Lbs.	kg	Inch	mm	Lbs.	N	Inch	mm
29520C	16	7 x 24	1000††	304.8	122.0	55.3	0.39	10.01	107	476	4.0	101.6
29521C	14	7 x 22	1000††	304.8	142.0	64.4	0.43	10.80	162	721	4.3	108.0
29522C	12	7 x 20	1000††	304.8	182.0	82.6	0.46	11.68	258	1148	4.6	116.8
29523C	10	7 x 18	1000††	304.8	274.0	124.3	0.51	12.85	444	1975	5.1	129.5
29524C	8	7 x 16	1000††	304.8	425.0	192.8	0.65	16.41	576	2562	6.5	165.1
29525C	6	7 x 14	1000††	304.8	553.0	250.8	0.72	18.39	915	4070	7.3	185.4
29526C	4	7 x 12	1000††	304.8	602.0	273.1	0.83	20.96	1450	6450	8.3	209.6
29527C	2	7 x 10	1000††	304.8	1105.0	501.2	0.99	25.25	2300	10231	10.0	254.0
29528C	1	7 x 19 x 22	1000†	304.8	1314.0	596.0	1.13	28.65	2650	11788	11.5	292.1
29529C	1/0	7 x 19 x 21	1000†	304.8	1590.0	721.2	1.21	30.84	3537	15733	12.3	311.1
29530C	2/0	7 x 19 x 20	1000†	304.8	1885.0	855.0	1.31	33.25	4200	18682	13.3	336.6
29531C	3/0	7 x 19 x 19	1000†	304.8	2301.0	1043.7	1.42	36.04	5025	22352	14.3	362.0
29532C	4/0	7 x 19 x 18	500†	152.4	1420.5	644.3	1.54	39.04	6670	29670	15.5	393.7

†Final put-up may vary ± 5% from length shown. †† Final put-up may vary ± 10% from length shown.



- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2 rated circuit conductors – 14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved

* Numerous put-up options available.

Be Certain with Belden



Belden VFD Cables Were Designed to Deliver Top Performance in Any Type of Environment

VFD Cable Selling Points:

All Cables

- Thicker, industrial-grade XLPE insulations provide low capacitance for extended motor life, reduced likelihood of corona discharge, reduced magnitude of standing waves, increased efficiency of power transfer
- Robust ground and shielding system to minimize radiated and conducted noise that can disrupt plant control and instrumentation systems
- Reliably carry power from AC drive systems to AC motors
- Effectively handle the overall high power levels of pulse-width modulated (PWM) signals
- Reliably handle high voltage spikes – eliminating potential damage to the cable, motors, bearings, drives and related equipment - potentially extending their life
- Industrial-grade PVC jackets provide sunlight- and oil-resistance; Haloarrest jackets are halogen-free and provide sunlight-resistance in LSZH versions
- Impervious to adverse or harsh environments
- ER rating allows for the elimination of conduit for easier and less expensive installations
- Effectively eliminate downtime due to cable failure

Classic Foil/Braid Designs

- High-strand conductors ease installation; enable better vibration resistance
- Full-sized insulated ground allows lower resistance path to ground
- Tinned copper conductors to prevent against corrosion
- Low capacitance and low impedance of the cables closely matches the drive and electrical values
- Round configuration for reliable sealing

Classic Symmetrical Designs

- Available with high-strand conductors in large AWG sizes
- Design features a copper tape shield with segmented ground
- Smaller OD than the Classic Designs with Foil/Braid

Classic Designs with Signal Pair

- Overall jackets provide more protection for the integrated signal pair
- Easier, lower cost installation than pulling the signal pair separately

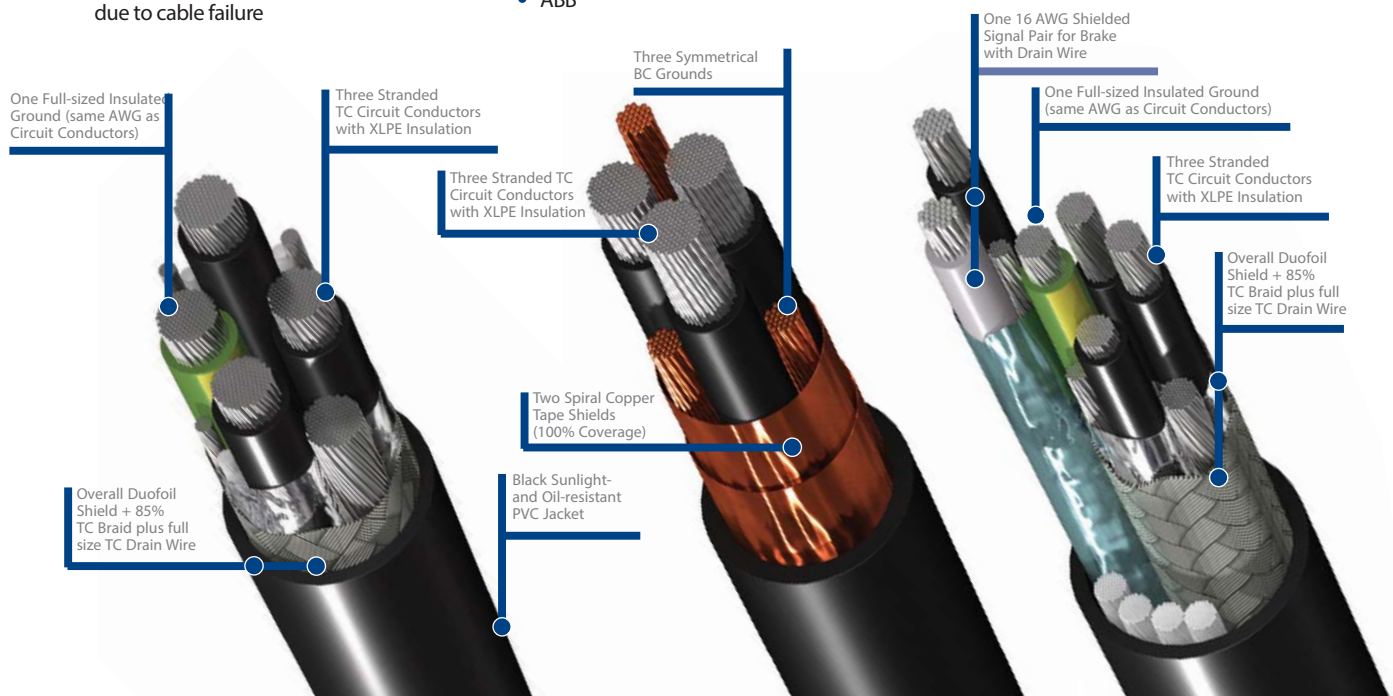
Applicable for Use With:

- Rockwell Automation AC drives
- AA Electric
- ABB

- Baldor
- Cutler-Hammer
- Emerson Process Management
- Fivestar Electric Motors
- General Electric
- Hitachi
- Magnetek
- Mitsubishi Electric Automation
- Motion Industries
- Quality Drive Systems
- Robicon
- Siemens
- Square D
- Toshiba
- TB Woods

Belden VFD Cables versus Tray Cables or Single Conductor Products

- Superior radiated and conducted noise protection with robust shield and ground design
- XLPE insulation provides lower capacitance resulting in reduced voltage spikes and corona discharge
- Extended motor life
- Longer cable runs



BELDEN GLOBAL LOCATIONS

For worldwide Industrial Sales
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www.belden.com/industrial



OMNICABLE (800) 292-OMNI
omnicable.com

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(630) 315-2939 - Fax

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Buena Park, CA 90620
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Union City, CA 94587
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(510) 887-8717 - Fax

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(781) 986-2607 - Fax

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(303) 371-1071 - Fax

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(610) 701-9870 - Fax

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1463 Hoff Industrial Dr.
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