

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

Be Certain with Belden

Belden VFD Cables Deliver Top Performance in Any Environment

VFD Cable Features:

"Belden now offers **Marine certified, ABS approved, VFD cable with thermoset LSZH jacket**" (see page 10 for details)

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

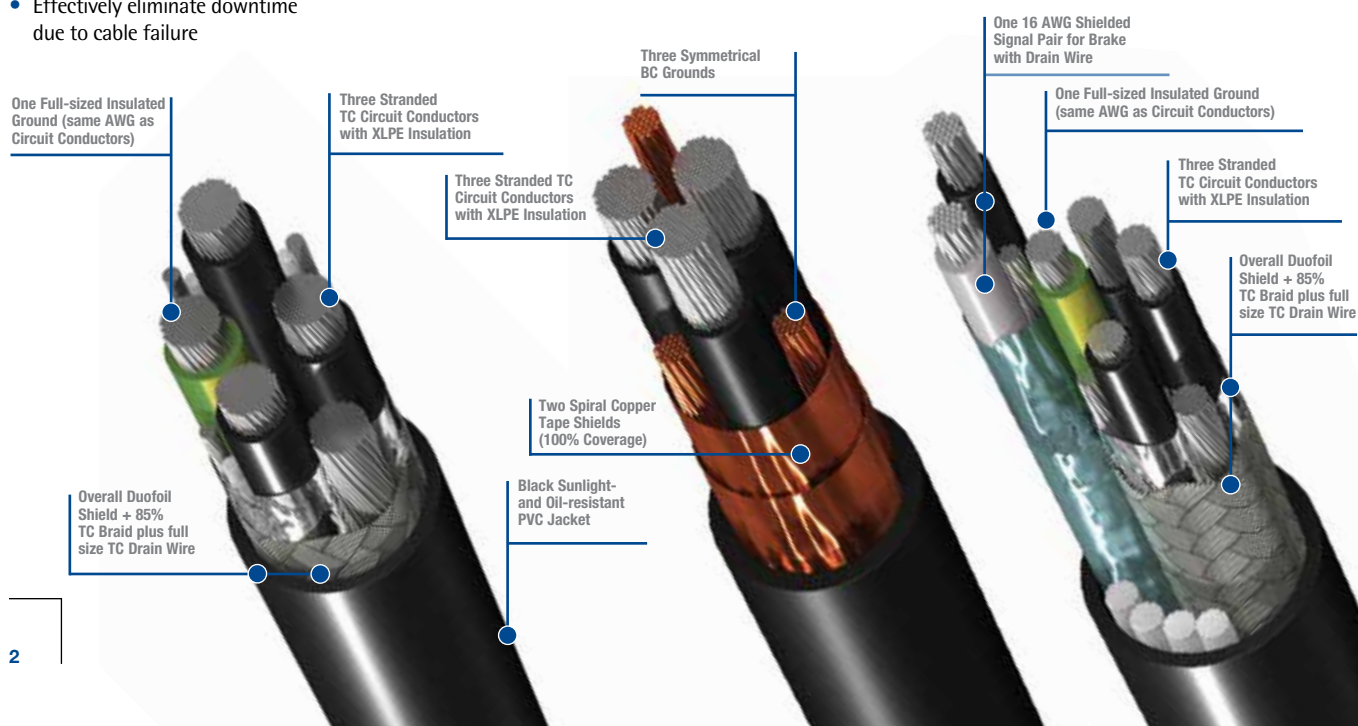






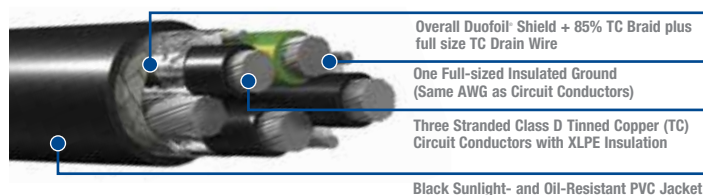
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Belden Classic® Foil/Braid Design VFD Cable with Full-size Insulated Ground

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	83.9	0.53	13.46	128	570	4.3	109.2
29501	14	41 x 30	1000††	304.8	235	106.6	0.60	15.24	212	943	4.8	121.9
29502	12	65 x 30	1000††	304.8	298	135.2	0.65	16.51	336	1495	5.2	132.0
29503	10	105 x 30	1000††	304.8	396	179.6	0.69	17.53	592	2634	5.5	139.7
29504	8	7 x 19 x 29	1000††	304.8	680	308.4	0.93	23.62	768	3418	7.5	190.5
29505	6	7 x 19 x 27	1000††	304.8	906	411.3	1.02	25.91	1220	5429	8.2	203.2
29506	4	7 x 19 x 25	1000††	304.8	1227	556.6	1.16	29.46	1940	8633	9.3	236.2
29507	2	7 x 19 x 23	1000††	304.8	1766	801.0	1.31	33.27	3088	13742	10.8	273.1

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

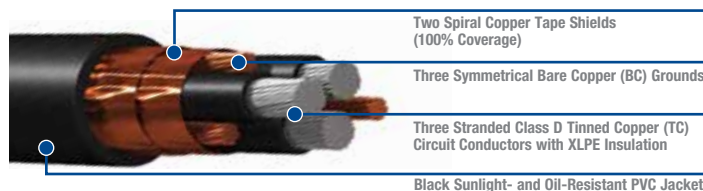


- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous 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	730.3	1.20	30.48	2650	11788	12.0	304.8
29529	1/0	7 x 19 x 21	1000†	304.8	2013	913.1	1.29	32.77	3537	15733	12.9	327.7
29530	2/0	7 x 19 x 20	1000†	304.8	2318	1051.4	1.40	35.56	4200	18682	14.0	355.6
29531	3/0	7 x 19 x 19	1000†	304.8	2708	1229.4	1.52	38.61	5025	22352	15.2	386.1
29532	4/0	7 x 19 x 18	500†	152.4	1717	778.8	1.68	42.67	6670	29670	16.8	426.7

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

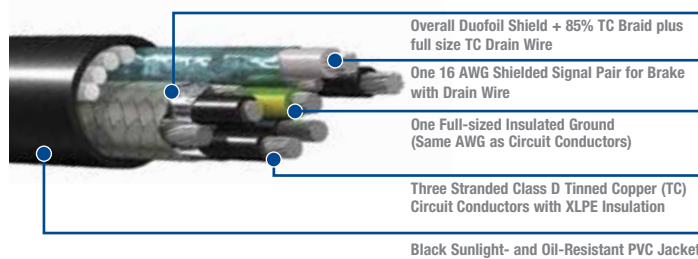


- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL 1685 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	147.0	0.75	19.05	272	1210	7.5	190.5
29511	Circuit Cond 14 Signal Pair 16	26 x 30	1000	304.8	340	154.2	0.82	20.83	368	1638	8.2	208.3
29512	Circuit Cond 12 Signal Pair 16	26 x 30	1000	304.8	438	198.7	0.90	22.86	527	2345	9.0	228.6
29513	Circuit Cond 10 Signal Pair 16	26 x 30	1000	304.8	563	255.4	0.99	25.15	718	3195	9.9	251.5



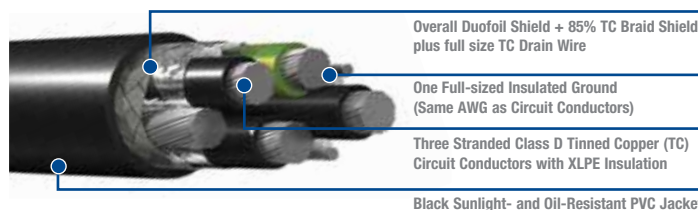
- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL 1685 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	153.3	0.68	17.30	212	943	6.80	172.72
29537	12	65 x 30	1000††	304.8	401	181.9	0.72	18.30	336	1495	7.30	185.42
29538	10	105 x 30	1000††	304.8	481	218.2	0.79	20.10	592	2634	7.90	200.70
29539	8	7 x 19 x 29	1000††	304.8	754	342.0	0.96	24.40	768	3418	9.60	243.84
29540	6	7 x 19 x 27	1000††	304.8	926	420.0	1.07	26.92	1220	5429	10.60	269.24
29541	4	7 x 19 x 25	1000††	304.8	1284	582.4	1.21	30.50	1940	8633	12.10	307.34
29542	2	7 x 19 x 23	1000††	304.8	1756	796.5	1.36	34.54	3088	13742	13.60	345.44

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

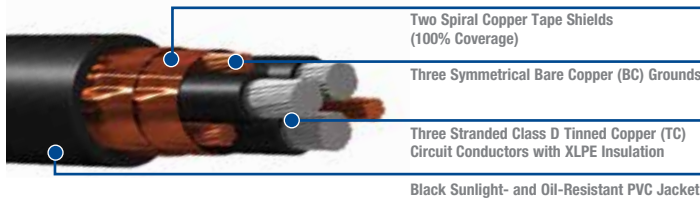


- 1000V UL Flexible Motor Supply
- 2000V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type WTTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- UL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

Belden Classic Symmetrical Design 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
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	368.3
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	444.5
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

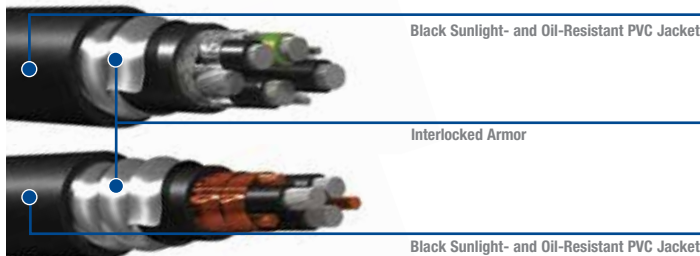
†Final put-up may vary ± 5% from length shown.



- 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
- 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



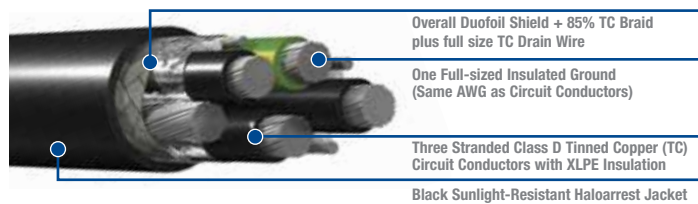
- 600V UL 1277 Type MC per 2005 NEC Article 330
- CSA FT4
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors (14 to 2 AWG)
- 90°C Wet/Dry
- Suitable for Class I & II, Division 2 hazardous locations
- IEEE 1202/383
- RoHS compliant
- CE approved



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

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

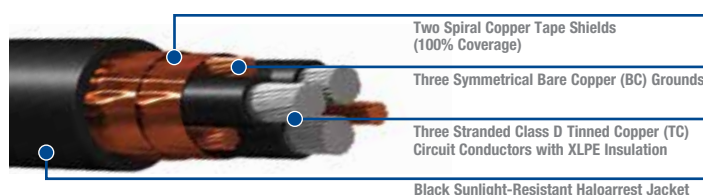


- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type W TTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous 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	735.3	1.20	30.48	2650	11788	12.0	304.8
29529T	1/0	7 x 19 x 21	1000†	304.8	2025	918.5	1.29	32.77	3537	15733	12.9	327.7
29530T	2/0	7 x 19 x 20	1000†	304.8	2331	1057.3	1.40	35.56	4200	18682	14.0	355.6
29531T	3/0	7 x 19 x 19	1000†	304.8	2722	1234.7	1.52	38.61	5025	22352	15.2	386.1
29532T	4/0	7 x 19 x 18	500†	152.4	1725	782.4	1.68	42.67	6670	29670	16.8	426.7

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

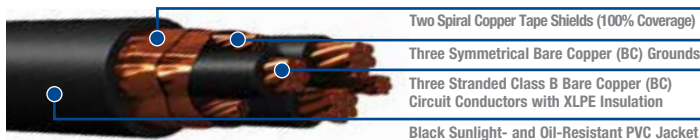


- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V UL 2277 Type W TTC
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- MSHA
- UL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

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.



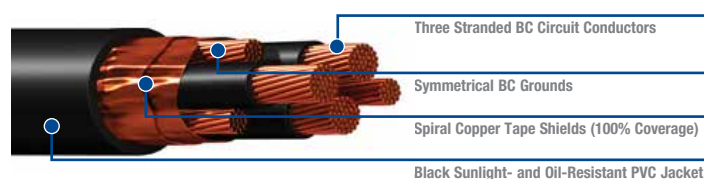
- 600V UL 1277 Type TC-ER per 2005 NEC Article 336
- 1000V CSA AWM I/II A/B FT4
- IEEE 1202/383
- UL Direct Burial
- XHHW-2 rated circuit conductors
- 90°C Wet/Dry
- Suitable for Class I, II & III, Division 2 hazardous locations
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved

* Numerous put-up options available.



Belden Symmetrical Design VFD Cable (250, 350 and 500 MCM with Dual Copper Tape Shield)

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
29533	250 MCM	37 x .0822	2300	701	9379	4254	1.91	48.56	6000	26688	34.4	873.8
29534	350 MCM	37 x .0973	1750	533	9601	4355	2.13	54.18	8400	37363	38.4	975.4
29535	500 MCM	37 x .1162	1300	396	9574	4343	2.41	61.16	12000	53376	43.4	1102.4



- 2000V UL 1277 TC-ER
- 1000 CSA C22.2 # 230 Type TC
- IEEE 1202/383
- UL Direct Burial
- RHW-2 Et RW90 Circuit Conductors
- 90°C Wet/Dry
- CSA FT4
- XLP Insulation
- Sunlight and Oil Resistant
- Black PVC Jacket
- RoHS Compliant

Belden CSA VFD Cable 14 to 4/0 AWG with Dual Copper Tape Shield

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
29550C	14	7 x 22	1000	304.8	134	60.8	0.43	10.92	162	75	4.3	109.2
29551C	12	7 x 20	1000	304.8	146	66.2	0.46	11.68	258	117	4.6	116.8
29552C	10	7 x 18	1000	304.8	238	107.9	0.51	12.95	444	201	5.1	129.5
29553C	8	7 x 16	1000	304.8	340	154.2	0.65	16.51	576	261	6.5	165.1
29554C	6	7 x 14	1000	304.8	468	212.3	0.72	18.28	915	415	7.3	185.4
29555C	4	7 x 12	1000	304.8	517	234.5	0.83	21.08	1450	658	8.3	210.8
29556C	2	7 x 10	1000	304.8	984	446.3	0.99	25.15	2300	1043	10.0	254.0
29557C	1	19 x 14	1000	304.8	1193	541.1	1.13	28.70	2650	1202	11.5	292.1
29558C	1/0	19 x 13	1000	304.8	1439	652.7	1.21	30.73	3537	1604	12.3	312.4
29559C	2/0	19 x 12	1000	304.8	1734	786.5	1.31	33.27	4200	1905	13.3	337.8
29560C	3/0	19 x 11	1000	304.8	2150	975.2	1.42	36.07	5025	2279	14.3	363.2
29561C	4/0	19 x 10	1000	304.8	2599	1178.9	1.54	39.12	6670	3025	15.5	393.7

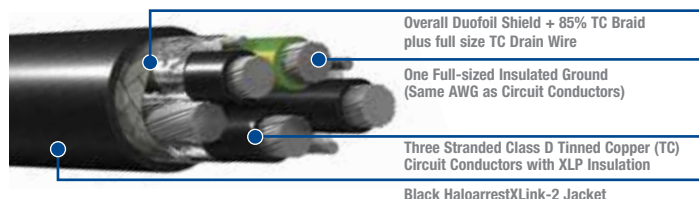


- 1000V CSA TC
- CSA C22.2 #230
- CSA C22.2 #38
- CSA FT-4
- IEEE 1202/383
- Direct Burial
- RW90 Rated Circuit Conductors
- 90°C Wet/Dry
- XLP Insulation
- Sunlight and Oil Resistant
- Black PVC Jacket
- RoHS Compliant

Marine Certified Belden Classic Foil/Braid Design VFD Cable (Thermoset Low Smoke Zero Halogen Jacket)

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
29500X	16	26 x 30	1000††	304.8	191.0	86.6	.53	13.46	128	570	4.3	109.2
29501X	14	41 x 30	1000††	304.8	243.0	110.2	.60	15.24	212	943	4.8	121.9
29502X	12	65 x 30	1000††	304.8	306.0	138.8	.65	16.51	336	1495	5.2	132.0
29503X	10	105 x 30	1000††	304.8	405.0	183.7	.69	17.53	592	2634	5.5	139.7
29504X	8	7 x 19 x 29	1000††	304.8	696.0	315.7	.93	23.62	768	3418	7.5	190.5
29505X	6	7 x 19 x 27	1000††	304.8	924.0	419.1	1.02	25.91	1220	5429	8.2	203.2
29506X	4	7 x 19 x 25	1000††	304.8	1248.0	566.1	1.16	29.46	1940	8633	9.3	236.2
29507X	2	7 x 19 x 23	1000††	304.8	1789.0	811.5	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
- CSA FT4
- IEEE 1202/383
- UL Oil Res 2 & IEC 60811-2-1 Hydrocarbon resistant
- UL 1685 Vertical Tray Flame Test
- XHHW-2, RHW-2 rated circuit conductors -14 AWG and larger
- 90°C Wet/Dry
- -40C cold bend, IEC 60332-3-22 Cat A (flame test)
- Suitable for Class I, II & III, Division 2 hazardous locations
- IEC 60754-1,-2 (acid gas emissions)
- MSHA (pending approval)
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved
- Marine approvals: ABS, UL 1309, IEEE 45, IEEE1580 Type P,

Marine Certified Belden Classic Symmetrical Design VFD Cable, Large AWG (Thermoset Low Smoke Zero Halogen Jacket)

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
29528X	1	7 x 19 x 22	1000†	304.8	1621	735.3	1.20	30.48	2650	11788	12.0	304.8
29529X	1/0	7 x 19 x 21	1000†	304.8	2025	918.5	1.29	32.77	3537	15733	12.9	327.7
29530X	2/0	7 x 19 x 20	1000†	304.8	2331	1057.3	1.40	35.56	4200	18682	14.0	355.6
29531X	3/0	7 x 19 x 19	1000†	304.8	2722	1234.7	1.52	38.61	5025	22352	15.2	386.1
29532X	4/0	7 x 19 x 18	500†	152.4	1725	782.4	1.68	42.67	6670	29670	16.8	426.7

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



- 1000V UL Flexible Motor Supply
- 600V UL 1277 Type TC-ER
- CSA FT4
- IEEE 1202/383
- UL Oil Res 2 & IEC 60811-2-1 Hydrocarbon resistant
- UL 1685 Vertical Tray Flame Test
- XHHW-2, rated circuit conductors
- 90°C Wet/Dry
- -40C cold bend, IEC 60332-3-22 Cat A (flame test)
- Suitable for Class I, II & III, Division 2 hazardous locations
- IEC 60754-1,-2 (acid gas emissions)
- MSHA (pending approval)
- UL 1685 Vertical Tray Flame Test
- RoHS compliant
- CE approved
- Marine approvals: ABS, UL 1309 Type, IEEE 45, IEEE1580 Type P



VFD Cross Reference Guide

Voltage*	HP	kW	Sizes	Classic VFD P/N	Classic w/ Signal Pair P/N	2kV VFD P/N	CSA VFD P/N	LSZH VFD P/N	Thermoset LSZH VFD w/ Marine Approvals P/N	
230V 3Ø	.25 to 3	0.75 to 2.2	16	29500	29510	-	-	29500T	29500X	
	5	3.7	14	29501	29511	29536	29550C	29501T	29501X	
			12	29502	29512	29537	29551C	29502T	29502X	
	7.5	5.6	12	29502	29512	29537	29551C	29502T	29502X	
	10	7.5	10	29503	29513	29538	29552C	29503T	29503X	
	15	11.2	8	29504	-	29539	29553C	29504T	29504X	
	20	14.9	6	29505	-	29540	29554C	29505T	29505X	
	25	18.6	4	29506	-	29541	29555C	29506T	29506X	
	40	29.8	2	29507	-	29542	29556C	29507T	29507X	
			1	29528	-	29543	29557C	29528T	29528X	
	50	37.3	1/0	29529	-	29544	29558C	29529T	29529X	
	60	44.7	2/0	29530	-	29545	29559C	29530T	29530X	
			3/0	29531	-	29546	29560C	29531T	29531X	
	75	55.9	4/0	29532	-	29547	29561C	29532T	29532X	
			250 MCM	-	-	29533	29533	-	-	
			350 MCM	-	-	29534	29534	-	-	
			500 MCM	-	-	29535	29535	-	-	
460V 3Ø	10	7.5	16	29500	29510	-	-	29500T	29500X	
			14	29501	29511	29536	29550C	29501T	29501X	
			12	29502	29512	29537	29551C	29502T	29502X	
	15	11.2	12	29502	29512	29537	29551C	29502T	29502X	
			10	29503	29513	29538	29552C	29503T	29503X	
	20	14.9	10	29503	-	29538	29552C	29503T	29503X	
	30	22.4	8	29504	-	29539	29553C	29504T	29504X	
	40	29.8	6	29505	-	29540	29554C	29505T	29505X	
	50	37.3	4	29506	-	29541	29555C	29506T	29506X	
	75	55.9	2	29507	-	29542	29556C	29507T	29507X	
			1	29528	-	29543	29557C	29528T	29528X	
	100	74.6	1/0	29529	-	29544	29558C	29529T	29529X	
	125	93.2	2/0	29530	-	29545	29559C	29530T	29530X	
	150	111.9	3/0	29531	-	29546	29560C	29531T	29531X	
			4/0	29532	-	29547	29561C	29532T	29532X	
			250 MCM	-	-	29533	29533	-	-	
			350 MCM	-	-	29534	29534	-	-	
		500 MCM	-	-	29535	29535	-	-		
575V 3Ø	10	7.5	16	29500	29510	-	-	29500T	29500X	
			14	29501	29511	29536	29550C	29501T	29501X	
	15	11.2	14	29501	29511	29536	29550C	29501T	29501X	
			12	29502	29512	29537	29551C	29502T	29502X	
	20	14.9	12	29502	29512	29537	29551C	29502T	29502X	
			10	29503	29513	29538	29552C	29503T	29503X	
	30	22.4	10	29503	29513	29538	29552C	29503T	29503X	
	40	29.8	8	29504	-	29539	29553C	29504T	29504X	
	50	37.3	6	29505	-	29540	29554C	29505T	29505X	
	60	44.7	4	29506	-	29541	29555C	29506T	29506X	
	100	74.6	2	29507	-	29542	29556C	29507T	29507X	
			1	29528	-	29543	29557C	29528T	29528X	
	575V 3Ø	125	93.2	1/0	29529	-	29544	29558C	29529T	29529X
		150	111.9	2/0	29530	-	29545	29559C	29530T	29530X
				3/0	29531	-	29546	29560C	29531T	29531X
		200	149.1	4/0	29532	-	29547	29561C	29532T	29532X
				250 MCM	-	-	29533	29533	-	-
			350 MCM	-	-	29534	29534	-	-	
		500 MCM	-	-	29535	29535	-	-		

NOTE: This chart is intended to highlight the types of variable frequency drives offered by each supplier. Depending on the type of drive, the supplier can choose the applicable voltage requirements listed in the chart to the right.

(*) Values based on typical Full-Load Current (FLC) ratings of three-phase AC motors as published in NEC Table 430.250 (2011) multiplied by 125% per NEC article 430-22 (A) (2011). The ampacity ratings of the cables are based on NEC Table 310.15(B)(16) (2011). The VFD w/Signal ampacity values were de-rated to 80% per NEC Table 310.15 (B)(2)(a) (2011) due to the increased number of current-carrying conductors included in these cable(s).

Consult drive/motor manufacturer for exact FLC ratings. NEC ampacity interpretations subject to user's local authority having jurisdiction.

(*) Values based on typical Full-Load Current (FLC) ratings of three-phase AC motors as published in CEC Table 44 (2012) multiplied by 125% per CEC Section 28-112 (2012). The ampacity ratings of the cables are based on CEC Table 2 (2012). The VFD w/Signal ampacity values were de-rated to 80% per CEC Table 5C (2012) due to the increased number of current-carrying conductors included in these cable(s).

Consult drive/motor manufacturer for exact FLC ratings. CEC ampacity interpretations subject to user's local authority having jurisdiction.

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