



FLEXCORE®

Available only through Encore Wire



Encore Wire's new Flexcore® is our most flexible wire with the highest strand count.

Type THW-2 / MTW / AWM / TEW
(Available in sizes 6 AWG - 750 KCMIL)

Offered with standard THW-2 and MTW insulation

Excellent resistance to oil, heat, and moisture

Permitted for 600-volt applications and can be used for internal wiring of appliances, electronic circuits, switchboards, and instrument panels



Optimal for use in data center applications, like power distribution units and remote power panels, where reduced bending radii and tight workspaces may be present

Sunlight-resistant in all colors



What makes Flexcore® the best option for your flexible wire needs?



- It utilizes ASTM Class I stranding and 24 gauge strands
- ASTM Class I stranding maximizes flexibility while still maintaining smaller OD
- The stranded conductors are manufactured under the ASTM B172 standard
- Flexcore® can be purchased on our standard reels, our self-spinning Reel Payoff®, and our Reel Deal®



- Data Center
- Airport Expansion
- Clean Energy
- Oil & Gas
- Power Generation
- School Construction
- Transit
- Waste Water Treatment Plant

Flexcore® is a highly flexible conductor intended for applications utilized in raceways for services, feeders, and branch-circuit wiring as specified by the NEC®. It is optimal for data center applications where increased flexibility is desired and reduced bending radii is necessary.

To view our product sheets, go to encorewire.com.



Scan QR code to learn more about Flexcore®



All Encore Wire products are born in the USA and raised in Texas.
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1.800.962.9473
encorewire.com



ENGINEERING SPECIFICATIONS

Standards

Underwriters Laboratories Standards UL-83, UL-758 (AWM Style 1015, 1232, 1283, 1284, 1337, 1338, 1339, 10070), UL-1063, UL-1581, UL-2556; ASTM B3; B172; B174; UL-1685 Method 2/FT4/IEEE1202 (70,000 Btu/hr) Vertical Flame Test (1/0 AWG and larger); Flame Test VW-1; NFPA 70 (NEC®); NFPA 79; NEMA WC70/IEA S-95-658; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-156879; UL Listing #E-123774



CONSTRUCTION

Stranding

Class I (24 AWG copper)

Conductors

Stranded, uncoated bare copper per ASTM-B3, ASTM-B172 or ASTM-B174

Insulation

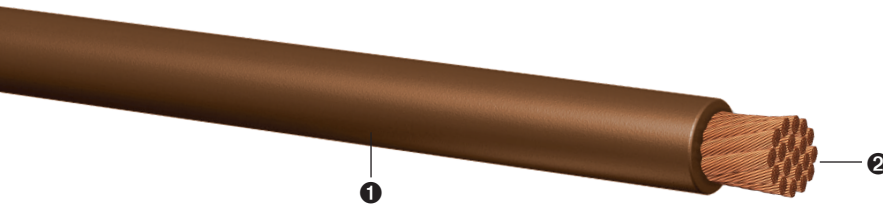
Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame retardant compound

APPLICATIONS

FLEXCORE® is a highly-flexible conductor intended for applications utilized in raceways for services, feeders, and branch-circuit wiring as specified by the NEC. FLEXCORE® may also be used in control cabinets, in machine tool applications, data centers, and as AWM in appliance wiring applications at temperatures -25°C to 105°C. For use in accordance with the National Electrical Code (NEC) and NFPA Standard 79, where applicable. Voltage rating for all applications is 600 volts.

FEATURES

FLEXCORE® features our SuperSlick Elite® coating that eliminates the need for lube. SuperSlick Elite® is standard on all sizes. On 250 KCMIL and larger, sequential footage markings are located every foot for easy measuring. For 1 AWG through 4/0 AWG sequential foot markings located on master reels only unless otherwise specified. 6 AWG and larger Sunlight Resistant in all colors.



- ① PVC Insulation
- ② Stranded Copper Conductor

Size (AWG)	No. of Strands	PVC Insulation Thickness (Conductor)		Outside Diameter		Approximate Net Weight (lbs/1000 ft)	Approximate Area (in²)	Allowable Ampacity (Amps) ¹			Standard Packaging (ft)
		(mm)	(in)	(mm)	(in)			60°C	75°C	90°C	
6	63	1.52	0.060	8.13	0.312	110.79	0.0804	55	65	75	1000'
4	105	1.52	0.060	9.58	0.353	165.81	0.1116	70	85	95	1000'
3	133	1.52	0.060	10.21	0.398	202.82	0.1269	85	100	115	1000'
2	161	1.52	0.060	11.10	0.421	249.92	0.1500	95	115	130	1000'
1	210	2.03	0.080	13.08	0.499	326.46	0.2083	110	130	145	1000'
1/0	266	2.03	0.080	14.22	0.588	402.02	0.2463	125	150	170	1000'
2/0	342	2.03	0.080	15.49	0.592	500.34	0.2922	145	175	195	1000'
3/0	418	2.03	0.080	16.84	0.648	618.53	0.3452	165	200	225	1000'
4/0	532	2.03	0.080	18.49	0.711	767.44	0.4162	195	230	260	1000'
250	627	2.41	0.095	20.47	0.794	918.04	0.5102	215	255	290	1000'
300	740	2.41	0.095	21.89	0.859	1,086.92	0.5836	240	285	320	1000'
350	851	2.41	0.095	23.16	0.862	1,235.07	0.6533	260	310	350	1000'
400	999	2.41	0.095	24.56	0.959	1,423.50	0.7344	280	335	380	1000'
500	1,221	2.41	0.095	26.82	1.045	1,757.33	0.8758	320	380	430	1000'
600	1,480	2.79	0.110	29.77	1.172	2,121.86	1.0788	350	420	475	1000'
750	1,850	2.79	0.110	32.82	1.292	2,623.55	1.3110	400	475	535	1000'

¹ Ampacity of conductors are based on NFPA 70 (NEC) Table 310.16. See 110.14(C), 240.4(D) and 310.15(B) and (C) for other limitations where applicable. The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND:

6 AWG THROUGH 1 AWG: ENCORE WIRE CORP (SIZE) TYPE MTW OR THW-2 SUN-RES GR1 VW-1 600V (UL) OR AWM CLASS I (STRANDS) DATE TIME OPERATOR QC MACHINE FLEXCORE SUPERSLICK ELITE
1/0 AWG THROUGH 750 KCMIL: ENCORE WIRE CORP (SIZE) TYPE MTW OR THW-2 SUN-RES GR1 VW-1 600V FOR CT USE (UL) OR AWM IEEE 1202 CLASS I (STRANDS) DATE TIME OPERATOR QC MACHINE FLEXCORE SUPERSLICK ELITE