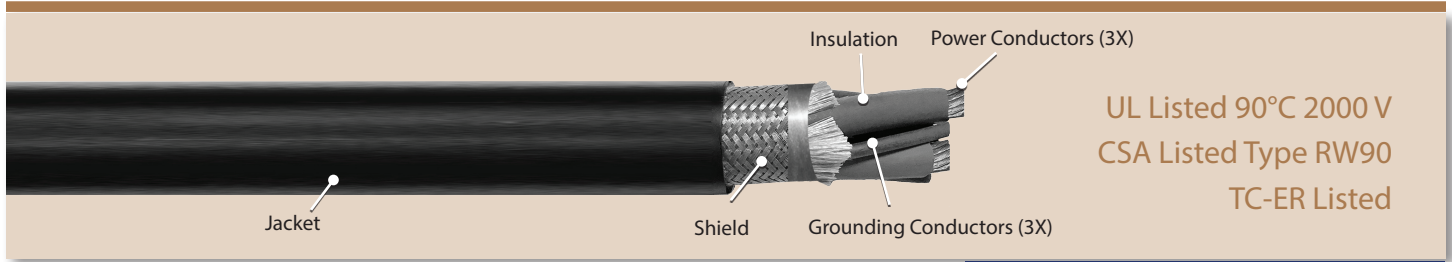


Rock-Flex® K

Flexible 2KV TC-ER VFD Cable

RSCC Industrial Cable

www.r-scc.com



Features

An optimized tinned copper braid and aluminum foil tape shielding system which provides 100% coverage as well as an effective electrostatic shield for isolation of high frequency currents and potentials, therefore providing an effective low impedance path to ground for AC motor and drive applications. Irradiation cross-linked XLPE insulation provides lower capacitance for extended motor life, mitigation of corona discharge and reduced scaling of standing waves resulting in increased power transfer efficiency and improved signal transmission.

- Reduced chance of cable failure from voltage irregularities such as harmonics, corona discharges, and power distortion
- Round configuration for reliable connectorization and sealing
- Impervious to adverse or harsh environments
- TC-ER rating allows for the elimination of conduit for more economical installations

High Dielectric Strength Insulation

- Highly engineered design effectively handles the overall high power levels of pulse-width modulated (PWM) signals and reliably handles high voltage spikes, therefore eliminating potential damage to motors, drives, bearings and related equipment.

Symmetrical Cable Construction

- Insulated segmented grounds and a robust shielding system are designed to minimize radiated and conducted noise that can disrupt facility control, power and instrumentation systems

Flexible Cable

- High strand count Class K tinned copper conductors coupled with a robust foil/braid shield design is much more flexible and easier to install providing a more effective cabling system for dynamic applications.

Performance Standards

- UL Listed as Type TC-ER rated 90°C, 2000 V per UL 1277
- Meets crushing and impact test requirements for Type MC-HL
- UL Listed for sunlight resistance, oil resistance and direct burial
- Insulation rated type RHW-2 rated “VW-1” per UL 44
- Thermoset jacket meets the requirements of UL 1277
- Cable passes IEEE 1202/FT4 Flame test
- Compliant with NFPA 79 2018
- CSA Listed as Type RW90 rated 2000 V, sunlight resistant, oil resistant, FT4 and direct burial per CSA C22.2 No. 38 and “Type TC” per CSA C22.2 No. 230
- EPA 40 CFR, Part 261 for Leachable lead content per TCLP
- RoHS / RoHS-2 Compliant
- OSHA Acceptable
- MSHA Approved P-07-KA200009

Temperature requirements

- -40°C cold impact
- -55°C cold bend

Scope

Rock-Flex® Flexible VFD (Variable Frequency Drive) Cables are high performance cables specifically designed to combat the problems of system performance and signal disruption in AC Motors and Drives.

Construction

Conductor: Annealed, flexible tinned copper, Class K per ASTM B33, B172 & B174

Insulation: Irradiation cross-linked XLPE

Circuit Identification: Power Conductors – ICEA Method 4 (black and numbered) or black, white and red colored conductors

Ground Conductors: Three segmented, green insulated grounding conductors with the same voltage rating as the circuit conductors

Fillers: Flame retardant fibrillated polypropylene, as required

Jacket: Black, heavy-duty, arctic grade thermoset



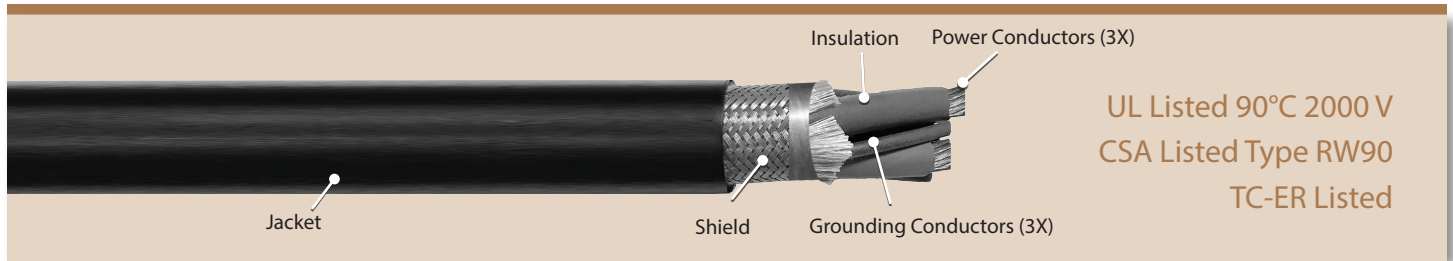
Made in the USA



Marmon Electrical
A Berkshire Hathaway Company

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Flexible 2KV TC-ER VFD Cable



Conductor Size, AWG or kcmil	Insulated Conductor OD, in	TC Grounds	Cable OD, in	Weight, lb./1000 ft.	NEC Ampacity*
14	0.192	3 x 18 AWG	0.769	407	15
12	0.209	3 x 16 AWG	0.823	475	20
10	0.235	3 x 14 AWG	0.927	626	30
8	0.302	3 x 14 AWG	0.987	846	55
6	0.338	3 x 12 AWG	1.067	977	75
4	0.387	3 x 12 AWG	1.079	1296	95
2	0.449	3 x 10 AWG	1.215	1871	130
1	0.539	3 x 10 AWG	1.411	2560	145
1/0	0.571	3 x 10 AWG	1.478	2889	170
2/0	0.617	3 x 10 AWG	1.577	3308	195
4/0	0.733	3 x 8 AWG	1.890	4808	260
250	0.812	3 x 8 AWG	2.059	5710	290
350	0.917	3 x 6 AWG	2.286	7643	350
373	0.928	3 x 6 AWG	2.309	7836	364
444	1.049	3 x 6 AWG	2.572	9128	402
500	1.061	3 x 6 AWG	2.605	10227	430
535	1.105	3 x 6 AWG	2.692	10602	446

*Ampacity based on 90°C conductor temperature and 30°C ambient temperature per 2020 NEC Table 310.16

Cables will be marked in accordance with UL and CSA Standards as well as other applicable ratings. For example, a 4 AWG cable would be marked as follows:

RSCC ROCK-FLEX® K VFD 3C 4 AWG (392/30) + 3C 12 AWG (65/30) TYPE TC-ER RHW-2 2000 V SUN RES OIL RES II DIR BUR -40C IEEE 1202/FT4 (UL) P-07-KA200009-MSHA NFPA-79-2018 ROHS-2 CE OR CSA RW90 2000 V SUN RES OIL RES DIR BUR FT4 TYPE TC
Sequential footage and date of manufacture



Made in the USA



Marmon Electrical
A Berkshire Hathaway Company