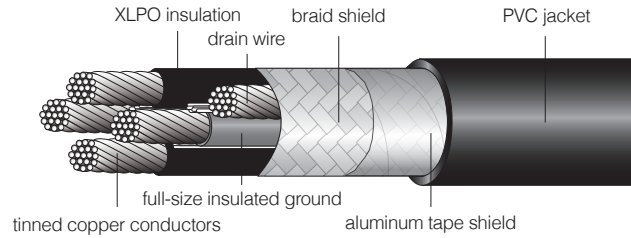


SPECIFICATION HW190A

REV 8/16

VFD POWER CABLE

600/1000V UL Type TC-ER, 90°C
Braid/Foil Shield with Drain Wire
XLPO Insulation, PVC Jacket
Tinned Copper Conductors
Full-size Insulated Ground



Catalog Number	Size (AWG/kcmil)	Number of Conductors	Conductor Stranding	Insulation Thickness (inches)	Ground Wire Size (AWG)	Ground Wire Stranding	Drain Wire Size (AWG)	Drain Wire Stranding	Jacket Thickness (inches)	Overall Dia. (inches)	Weight (lbs/Mft.)
HW190A 01603	16	3	19	0.030	16	19	16	19	0.060	0.461	144
HW190A 01403	14	3	19	0.030	14	19	14	19	0.060	0.497	182
HW190A 01203	12	3	19	0.030	12	19	12	19	0.060	0.567	248
HW190A 01003	10	3	37	0.030	10	37	10	37	0.060	0.631	326
HW190A 00803	8	3	37	0.045	8	37	14 (4X)	19	0.060	0.750	505
HW190A 00603	6	3	61	0.045	6	61	12 (4X)	19	0.080	0.890	745
HW190A 00403	4	3	133	0.045	4	133	10 (4X)	37	0.080	1.088	1130
HW190A 00203	2	3	133	0.045	2	133	8 (4X)	37	0.080	1.252	1614

Catalog Number	Size (AWG/kcmil)	Non-Exp Proof Gland	Exp Proof Gland with Compound Seal	Exp Proof RapidEx Gland (Must include appropriate sized RapidEx Liquid Resin)	RapidEx Liquid Resin
HW190A 01603	16	20SC2KX1RA531	20SPX2KX1RA531	20SPX2KXREX1RA531	RE30
HW190A 01403	14	20SC2KX1RA531	20SPX2KX1RA531	20SPX2KXREX1RA531	RE30
HW190A 01203	12	20C2KX1RA531	20PX2KX1RA531	20PX2KXREX1RA531	RE30
HW190A 01003	10	20C2KX1RA531	20PX2KX1RA531	20PX2KXREX1RA531	RE30
HW190A 00803	8	25SC2KX1RA532	25SPX2KX1RA532	25SPX2KXREX1RA532	RE30
HW190A 00603	6	25C2KX1RA532	25PX2KX1RA532	25PX2KXREX1RA532	RE30
HW190A 00403	4	32C2KX1RA533	32PX2KX1RA533	32PX2KXREX1RA533	RE30
HW190A 00203	2	40C2KX1RA34	40PX2KX1RA534	40PX2KXREX1RA534	RE80

APPLICATIONS:

A flexible, shielded power cable specifically engineered for use in variable frequency AC motor drive (VFD) applications.

CONDUCTOR:

Stranded tinned copper circuit conductors

INSULATION:

Crossed-linked polyolefin (XLPO), flexible and low dielectric

COLOR CODE:

Black with number surface printed in contrasting ink

GROUNDING CONDUCTOR:

One full-size tinned copper conductor with solid green cross-linked polyolefin (XLPO) insulation

DRAIN WIRE:

Tinned copper wires

OVERALL SHIELD:

Braid of tinned copper wires and a poly aluminum tape, helically applied and lapped

JACKET:

Black sunlight resistant polyvinyl chloride (PVC)

RATINGS & APPROVALS:

- UL Listed as Type TC-ER 600V
- UL Listed as 1kV Flexible Motor Supply Cable (up to 4/0 AWG)
- 90°C Temperature Rating
- FT-4 and IEEE 1202 Flame Ratings
- Sunlight Resistant
- Oil Resistant (Oil Res I)
- Direct Burial
- Meets crush and impact requirements for Type MC cable
- Permitted for Exposed Run ("ER") use in accordance with the NEC
- Permitted for use in Class 1, Division 2 and Zone 2 industrial hazardous locations per the NEC

OTHER:

- Specially engineered cable design produces a longer cable life in VFD applications
- Overall shield provides 100% coverage containing VFD EMI emissions
- High strand count design is much more flexible, easier to install and more resistant to vibration than Type MC cable
- Specially formulated insulation material with a lower dielectric constant (standard XLPE and EPR insulation materials have higher dielectric constants) withstands reflected voltages, allowing for longer output cable distances and minimizes the effect of high frequency noise induced into the plant ground system
- Gas and vapor tight - impervious to water and air
- Reduced installation time and cost compared to Type MC
- Glands for this product cost up to 50% less than those for Type MC
- Bend Radius is 8 x O.D.

* Cable diameters shown as nominal are subject to a ±5% manufacturing tolerance.