TC/VFD SHIELDED POWER CABLE 3 CONDUCTOR 2000 VOLTS

INSULATION: CROSS-LINKED POLYETHLENE (XLPE)

JACKET: POLYVINYL CHLORIDE (PVC)

SIZES: **#14 - 500 MCM** 90°C DRY / 90°C WET



supply power to submersible motors, or for connection to other power devices in industrial settings. Primary installations include cable trays, raceways and outdoor locations where supported by a messenger wire. Type TC-VFD is listed for direct burial or in underground ducts and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. This cable may be used in wet or dry locations at temperatures not to exceed 90°C.

2.0 CONSTRUCTION:

2.1 Conductor:

Class B stranded, uncoated annealed copper conforming to ASTM B-3 and B-8.

2.2 Insulation:

Each conductor is insulated with black Crosslinked Polyethylene (XLP) conforming to ICEA S-95-658/NEMA WC-70, Table 3-7 and UL Standard 44 for Type RHH/RHW-2. Three symmetrical bare copper ground conductors.

2.3 Cable Core:

Each conductor is black and printed with its conductor number in accordance with ICEA Method 4.

2.4 Ground Wires:

Three Class B stranded, un-coated annealed copper conforming to ASTM B-3 and B-8..

2.5 Assembly:

Individual conductors are bare annealed copper covered with a cross linked polyethylene (XLP) insulation. The conductors are cabled together with fillers and three bare ground wires, shielded with a un-coated 5 mil thick copper tape (50% Overlap) and covered with an overall flame retardant, moisture and sunlight resistant PVC jacket.

2.6 Shield:

A 5 mil un-coated copper tape is helically wrapped over the twisted assembly with a 50% (nominal) overlap. The shield shall be in contact with the ground wires.

2.7 Outer Jacket:

A black, flame retardant Polyvinyl Chloride (PVC) jacket meeting the requirements of UL Standard 1277 is applied.

3.0 SPECIFICATIONS:

UL 44 1277 ASTM B3 & B8 Color Code Per ICEA S-58-679 Method 4 IEEE 384 (IEEE 1202/CSA FT4) Flame Test ICEA S-95-658(NEMA WC-70)Construction

Paige Part Numbers	Power Conductor Size	No. of Conductors	No. of Strands	Ground Wires	Insulation Thickness	Jacket Thickness	Approximate O.D.	Ampacity	Ampacity	Net Weight
	AWG/KCMIL			(AWG)	mils	mils		75°C ¹	90°C1	
7391SP1	14	3	7	3 x #18	60	60	0.590	20	25	241
7391SP2	12	3	7	3 x #16	60	60	0.630	25	30	263
7391SP3	10	3	7	3 x #14	60	60	0.680	35	40	332
7391SP4	8	3	7	3 x #14	70	60	0.795	50	55	414
7391SP5	6	3	7	3 x #12	70	80	0.920	65	75	622
7391SP6	4	3	7	3 x #12	70	80	1.020	85	95	783
7391SP7	2	3	7	3 x #10	70	80	1.150	115	130	1156
7391SP8	1/0	3	19	3 x #6	90	80	1.415	150	170	1815
7391SP9	2/0	3	19	3 x #6	90	80	1.510	175	195	2587
7391SP10	3/0	3	19	3 x #5	90	80	1.620	200	225	2625
7391SP11	4/0	3	19	3 x #4	90	110	1.805	230	260	3241
7391SP12	250	3	37	3 x #2	105	110	1.970	255	290	3657
7391SP13	350	3	37	3 x #2	105	110	2.195	310	350	4958
7391SP14	500	3	37	3 x #1	105	110	2.475	380	430	6689

Note: Ampacities are based upon Table 310.16 of the NEC, 2008 Edition. Ampacities are for general use with a 90° ambient temperature as specified in section 310.15 and in cable trays as specified in 392.11.