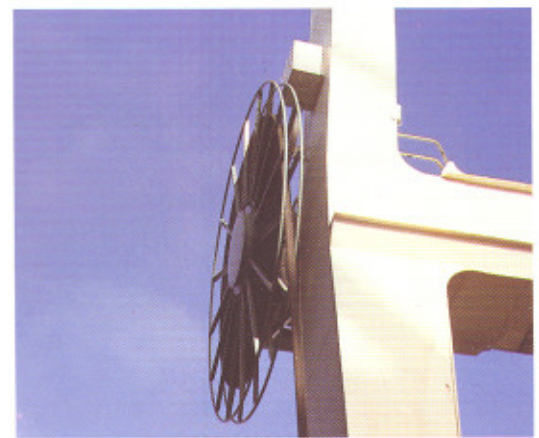
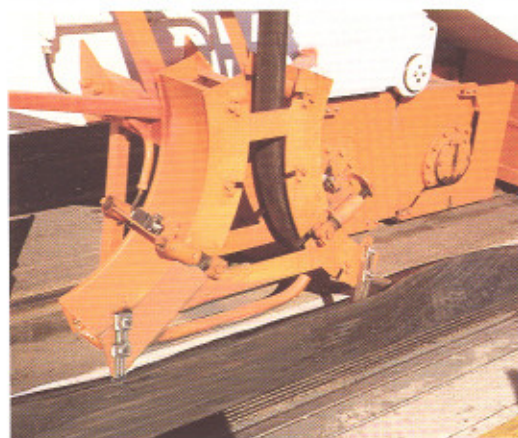
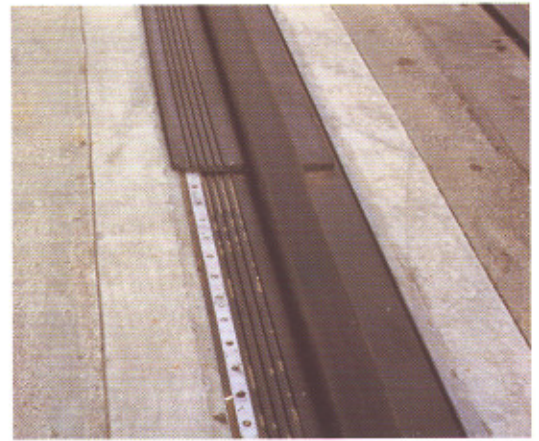
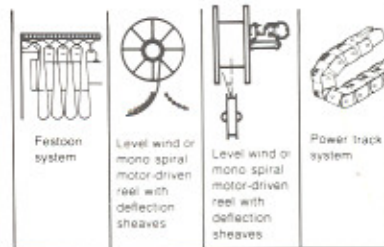


PROTOLON

Portable flat power reeling cable, EP insulation, concentric ground conductors, outer Neoprene jacket, 90°C, 2kV, 5kV



Application

- Retrofit of existing equipment

Features

- Flat cable design
- Unique concentric ground conductor
- Semi-conductive EP conductor shield
- Finely stranded tin coated copper conductors
- Extra heavy duty red PROTOFIRM™ neoprene jacket

Benefits

- Easy retrofit for existing flat cable system
- Conductor acts as a combination ground & shield
- Provides a uniform symmetrical electrical field free from "hot" spots
- Provide increased flexibility and durability under constant reeling conditions
- Highly resistant to ripping, notching, abrasion, lubricants, chemicals and weather
- Red-high voltage i.d.

Temperature rating

- Maximum conductor temperature: 90°C
- Minimum permissible ambient temperature for optimum fully flexible operation: - 25°C
- Minimum permissible ambient temperature: - 40°C

Ampacity & voltage drop

The tables on pages 19 to 22 may be used to determine the appropriate ampacity for PROTOLON flat cables. Voltage drop may be calculated by using the information on page 23. When used on a monospiral reel, the ampaci-

ty of Protolon flat cables must be derated due to mutual heating between stacked coils.

The applicable derating corresponds with the value for three layers of round cables on a reel, i.e. 0.47, as given on page 22.

Voltage ratings *

Rated voltage	5 kV	8 kV	15 kV	25 kV
* AC factory test voltage (R.M.S.)	13 kV	18 kV	27 kV	38 kV
* Recommended DC test voltage (15 min)	35 kV	55 kV	80 kV	85 kV

* See Section 5 for additional information on A.C. and D.C. cable testing.

Details on PROTOLON cables up to 35kV are available upon request. Normal safety practices should be implemented when performing electrical tests. Particular attention is required in

discharging cables after testing to eliminate charge build-up associated with the capacitive characteristics of insulation.

Insulation colors

The three phase conductors are insulated with white EP and finished with a black extruded semi-conductive EP shield.

PROTOLON Flat reeling cable

- 1 Heavy duty outer neoprene jacket
- 2 Semiconductive tape
- 3 Ground conductor
- 4 Outer extruded semi-conductive rubber conductor shield for 5kV and above
- 5 PROTOLON EP insulation
- 6 Inner semi-conductive rubber conductor shield
- 7 Finely stranded, tin coated copper conductors



PROTOLON Medium Voltage Flat Reeling Cable - 2000 V

Anixter Part Number	Power Conductors				Concentric Ground Conductors (3)				Nominal Overall Dimensions		Cable Weight		Maximum Continuous Safe Reeling Tension	
	Number of Conductors	Conductor Size		Approximate Number of Strands Per Conductor	Conductor Size		Total Ground Conductor Area		Thickness x Width		Lbs/1000 ft	kg/km	lbs	Newtons
		AWG	mm ²		AWG	mm ²	Approx AWG	mm ²	Inch	mm				
SSP-4002F	3	#4/0	120	962	#4	23.33	#2/0	70	1.365 x 3.530	34.5 x 89.5	4650	6920	1215	5345
SSP-3032F	3	#300MCM	150	1191	#4	23.33	#2/0	70	1.380 x 3.580	35.0 x 91.0	5480	8150	1520	6690

PROTOLON Medium Voltage Flat Reeling Cable - 5000 V

SSP-0205F	3	#2	35	276	#8	8.33	#4	25	1.025 x 2.680	25 x 70	2095	3120	355	1560
SSP-1005F	3	#1/0	50	396	#8	8.33	#4	25	1.160 x 2.990	30 x 75	2595	3865	505	2220
SSP-2005F	3	#2/0	70	565	#8	11.66	#2	35	1.260 x 3.230	30 x 80	3250	4840	710	3125
SSP-3035F	3	#3/0	95	746	#8	16.66	#1/0	50	1.260 x 3.305	30 x 85	3755	5590	960	4225
SSP-4045F	3	#4/0	120	962	#4	23.33	#2/0	70	1.380 x 3.545	35 x 90	4690	6980	1215	5345