

GR900
GR1000

GROUND FAULT CABLE RETRACTOR



FOR
COMPACT
GROUND
CABLE
STORAGE

CABLE HANDLING

Aero-Motive Company



A Woodhead Industries, Inc. Subsidiary

GROUND FAULT CABLE RETRACTORS

GR900
GR1000

Features:

Retracts Temporary Ground Cable for portable equipment on electric utility vehicles. Compact design provides more efficient use of vehicle storage space and easy field cable termination.

Containerized Mainspring makes spring replacement safe, simple and fast. Superior spring design makes replacement an infrequent event.

Collector Ring features tamper-proof construction & silver plated contacts around full 360 degree rotation. The electrical path has a current-carrying capacity greater than the largest cable possible.

Cable Guide for smooth payout & retrieval.

Weather-Tight & Polyester Coated to prevent corrosion in outdoor environments. GR900 features all-aluminum construction; GR1000 all steel. Both designed for high reliability and low repair.

No Bonding Required because the ground cable is connected directly to the collector ring.



CAPACITY

(Retractor supplied without cable)

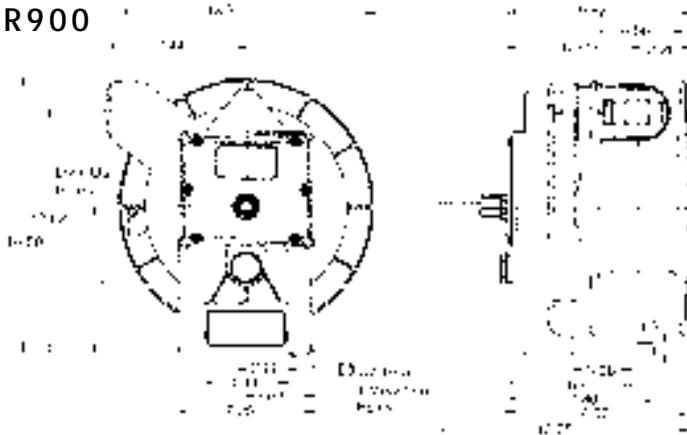
Cable AWG	Length		Model
	ft.	m	
#2	40	12.2	GR900
1/0	40	12.2	GR900
2/0	40	12.2	GR900
2/0	60	18.3	GR1000L
4/0	50	15.2	GR1000L

QUALIFICATION TESTS

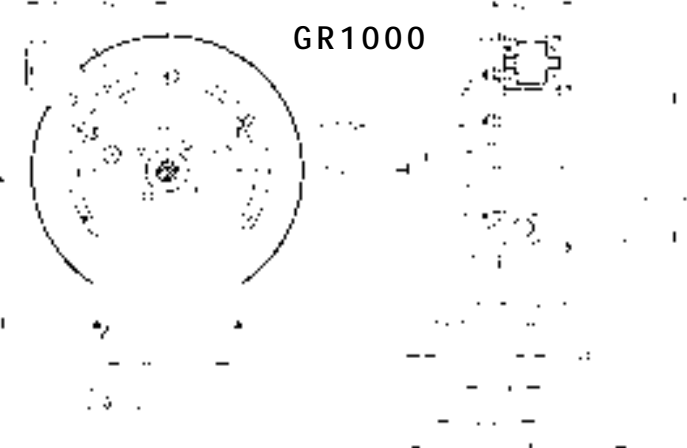
Certified testing 2/0 AWG sample with cable fully extended:

Scenario/Result	Duration	Amplitude	Resistance	
			Before	After
one shot/ rotated freely same resistance after rotating	8 cycles	18.4 kA	0.548mΩ	0.610mΩ
reclose sequence/ rotated freely same resistance after rotating	8 cycles (2 sec)	18.7 kA	0.541mΩ	
breaker failure/ rotating freely to failure/ 2.0 cable lead fused open 6 in. from reel. No damage to collector ring.	8 cycles (15 sec)	18.6 kA		
	9 cycles	18.2 kA		0.639mΩ
rotating freely 0.646m resistance after rotating	100 cyc.	15.6 kA	0.594mΩ	0.638mΩ
to failure/ 2.0 cable lead fused open 6 in. from reel. No damage to collector ring.	101 cyc.	15.5 kA	n/a	

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