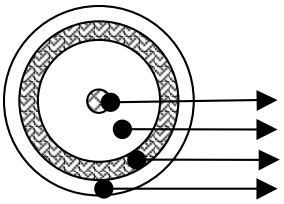
	TECHNICAL DATA SHEET	code	MRG1740
		version	2
		date	2005-11-09
	R.F. CABLE 50 OHM RG 174 U CCS	page	1/2

APPLICATION
Coaxial cable used for Radio-frequency, designed according MIL-C-17F/119F

CONSTRUCTION



1. Conductor
2. Dielectric
3. Screen
4. Sheath

1) Conductor	7x0.16 mm copper clad steel wire
Diameter	0.5 mm
2) Dielectric	Solid PE
Diameter	1.50 mm ± 0.10 mm
3) Screen	braid
Material	0.1 mm tinned copper wire
Diameter	1.97 mm ± 0.11 mm
4) Sheath	PVC
Diameter	2.80 mm ± 0.10 mm
Color	black

REQUIREMENTS AND TEST METHODS
Test methods generally in accordance with MIL-C-17F/119F

1) Conductor

Elongation at break	≥ 1%

3) Screen

Coverage	86 %

Electrical characteristics

Mean characteristic impedance	50 ± 2 Ohm	
DC resistance inner conductor	≤ 317 Ohm/km	
Capacitance at 1 kHz	100 ± 3 pF/m	
Velocity ratio	0.66 ± 0.02	
Insulation resistance	> 10^4 MOhm.km	
Voltage test of dielectric	3 kV dc	
Corona	≥ 1.5 kV ac	
Return loss at..	100 – 400 MHz	≥ 22.5 dB
	400 – 900 MHz	≥ 19.2 dB

Electrical characteristics (cont..)

Power rating at..	100 MHz	≤ 50 W
	1000 MHz	≤ 16.5 W
Nominal attenuation at..	400 MHz	80 dB/100m
	1000 MHz	148 dB/100m
Maximum attenuation	10% higher	

MARKING

Text	Inkjet printing

POPE VENLO HOLLAND RG 174 U MIL-C-17F

PACKAGING

Code 46968 0025 040	One way reel E 250/100/160 Length 500 m ± 5% Max. 10 % of the length to be delivered contains a shorter length with a minimum of 250 m. Each reel or coil contains one length of cable

Code 46968 0025 153	Ring 200 m ± 5% Max. 10 % of the length to be delivered contains a shorter length with a minimum of 50 m.

Weight	
Total cable	11.50 g/m
Copper	4.82 g/m