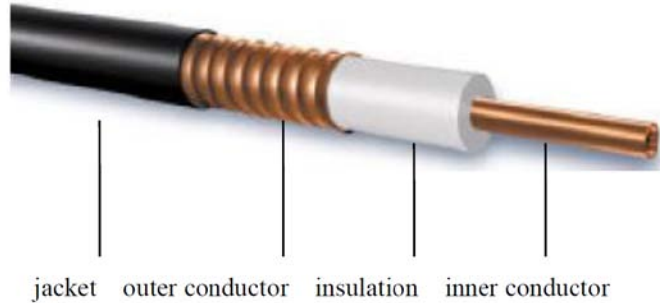


## AFY-50-78R-PE



### Design:

Inner conductor: Copper tube	$\varnothing 9.0 \pm 0.1 \text{ mm}$
Insulation of foamed Polyethylene (PE) with skin	$\varnothing 22.7 \pm 0.2 \text{ mm}$
Outer conductor: Annular corrugated copper tube	$\varnothing 24.9 \pm 0.25 \text{ mm}$

### Jacket:

LLDPE	$\varnothing 27.5 \pm 0.25 \text{ mm}$
Min. thickness	$> 1.1 \text{ mm}$
Printing: Amphenol_FY-50-7/8"_F_PE_XXXXXm_801_xx(Y)xx(M)xx(D)	

### Electrical data at 20°C:

Insulation resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$	
Capacitance	76 pF/m	
Characteristic Impedance	$(50 \pm 1) \text{ Ohm}$	
Relative velocity of propagation	88 %	
Dielectric strength	10.0 kW	
Peak voltage	3200V	
VSWR		
	800-1000MHz	1.15
	1700-2700MHz	1.15
Cut-off frequency	5.0 GHz	
Max. peak power	90 kW	
Jacket Spark Test Voltage	8000V	

## Technical Data Sheet

### Attenuations table

Frequency (MHz)	900	1000	1500	1800	2100	2600
Attenuation typ. (dB/100m)(dB/100ft)	3.89	4.13	5.19	5.72	6.00	6.70
Mean. Power (kW) at 40°C (104 °F)	2.34	2.19	1.74	1.57	1.44	1.26
Attenuation and Average power (Maximum attenuation value shall be 105% of the nominal attenuation value)						

### Mechanical and thermal characteristics:

2011/65EU(ROHS)

compliant

### Other characteristics:

Corrosivity of fire gases acc. to IEC 60754

Permissible temperature installation range

-40 °C up to +60 °C

Permissible temperature storage range

-50 °C up to +70 °C

Permissible temperature operation range

-40 °C up to +65 °C

Min. bending radius allowed

repeated 260mm, single 130mm

Tensile strength

1440 N

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