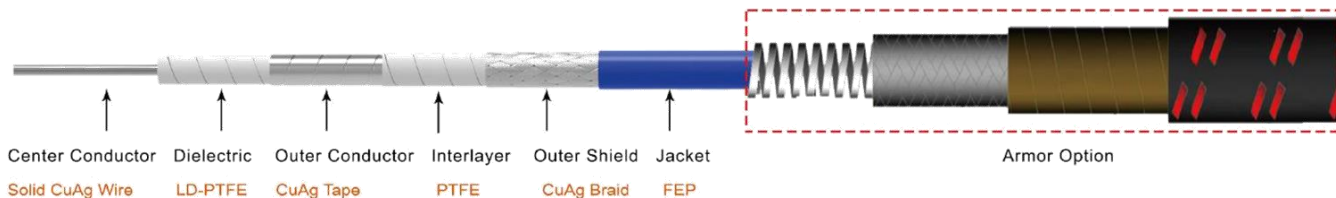


# 40GHz Ultra-Low Loss & Amplitude Stable Flexible Cable

## Armor Cable Assembly, P438, 2.92mm male to 2.92mm male 0.6Meter

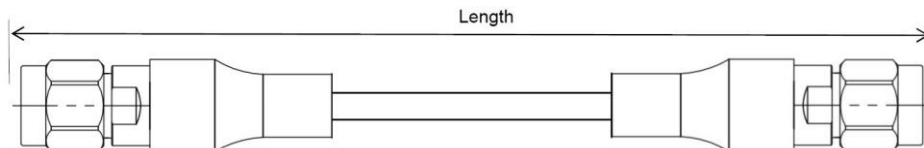
P.N. : B-A429.2900.1

### Cable Structure



Structure	Diameter (mm)	Material
1. Center Conductor	1.02	Solid silver plated copper
2. Dielectric	2.85	Ultra-Low density PTFE
3. Outer conductor	3.06	Silver plated copper tape wrap
4. Interlayer	3.22	Low density PTFE
5. Outer shield	3.67	Silver plated copper wire braid
6. Jacket	3.80	FEP
7. Armor		AM640

### Cable Assembly



- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

### Cable Assembly Configuration

Connector (Right)	2.92mm male, straight
Body/Coupling Nut/Contact Material	Passivated s/steel, Gold plated BeCu contacts
Connector (Left)	2.92mm male, straight
Body/Coupling Nut/Contact Material	Passivated s/steel, Gold plated BeCu contacts
Cable Type	P438-Armor

### Cable Assembly



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### Electrical Specification

Frequency Range	DC-40GHz				
Impedance	50 ohm				
VSWR Max	1.35:1 (DC ~ 40GHz)				
V. P	82%				
Withstanding Volt	1000V DC				
Shielding effectiveness	>90dB				
Mechanical Phase Stability	±5°@40GHz				
Temperature Phase Stability	680PPM(-40°C to +85 °C)				
Mechanical Amplitude Stability	±0.1dB@40GHz				
Max Attenuation vs Frequency dB @ 2 5°C ( without two connectors )	6GHz	12GHz	18GHz	26GHz	40GHz
	0.80dB	1.15dB	1.43dB	1.76dB	2.2dB
Avg Power at sea level @ 40°C	203W	142W	114W	93W	74W

### Environmental Specification

Operating Temperature	-50°C to +85 °C
Storage Temperature	-60°C to +85 °C

### Mechanical Specification

Min Bending Radius static	19mm
Min Bending Radius repeated	38mm
Weight	37 gram / Meter ( Cable itself)

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### Electrical Specification

