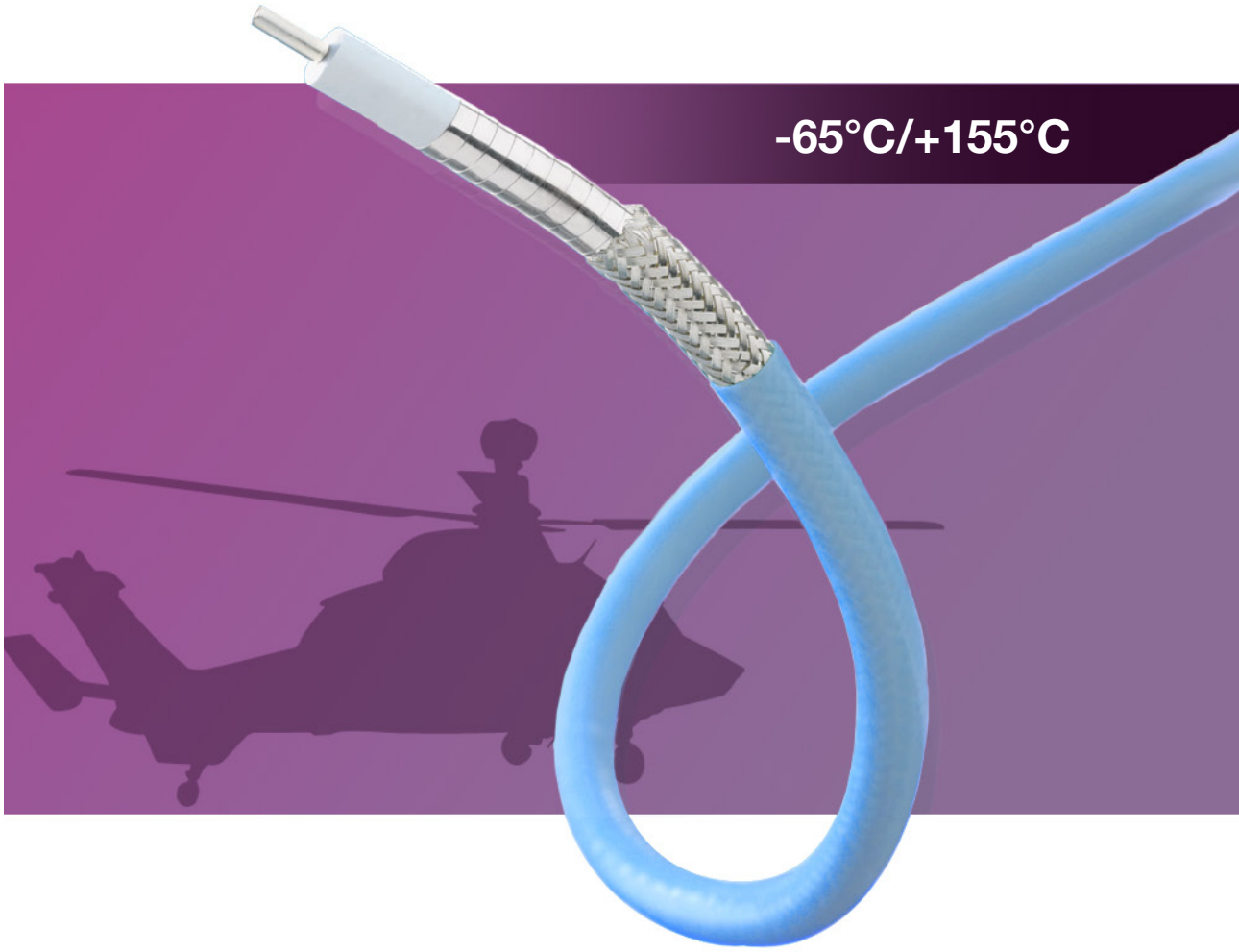

High performance & cost effective
Microwave cable
Axowave™ AW2.2

ADVANTAGES

> Excellent attenuation values
> Temperature rating: -65°C / +155°C
> Small diameter: 2.2 mm
> Approximate weight: 12 g/m
> Designed and manufactured by using a cost effective process
> Suitable to all microwave transmissions
> Other size microwave cables available on request
> Cabling by using SMA connector or other on request
> Integration of all Axon' components: conductor, Celloflon® dielectric, shielding tape and braid
> Integration of all manufacturing steps including conductors
> Aerospace application heritage

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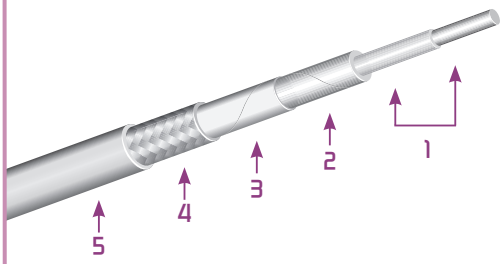
axon' cable & interconnect

Axowave™ AW2.2



Construction

1. Core	Inner conductor	Solid silver plated copper	Ø0.51 mm
	Dielectric	Celloflon® (expanded PTFE)	-
2. Taped shield		Silver plated copper	-
3. Separation tape		Polyester tape	-
4. Braided shield		Silver plated copper	-
5. Outer jacket		FEP	Ø2.2 mm

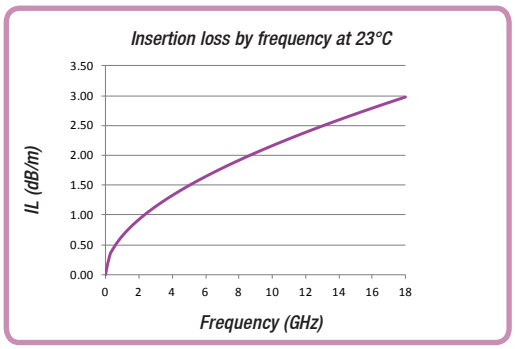
Characteristics

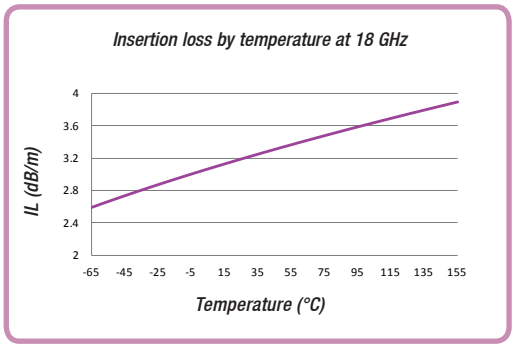
Insertion loss up to 18 GHz	3.0 dB/m max.
Characteristic impedance	50 ±2 Ω
Capacitance	87 pF/m
Velocity of propagation	77 %
Nominal phase	1555 °/GHz/m
Cut off frequency	70 GHz
Shielding efficiency at 1 GHz	-100 dB max.
VSWR (DC at 18 GHz)	1.15 max.
Insertion loss stability after bending at 18GHz (R=30 mm)	0.1 dB max.
Phase stability after bending (R=30mm) at 18GHz (3 turns)	9° max.
Phase stability vs temperature (-65°C / + 155°C)	2.2 °/GHz/m max.

AXOWAVE™ AW2.2

Calculation of insertion loss

Frequency (GHz)	Max insertion loss (dB/m)
$\alpha_{max.}$ (F) = 0.63 x $\sqrt{F}$ + 0.017 x F	
1	0.65
2	0.95
4	1.35
6	1.65
8	1.95
12	2.40
18	3.00





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