



# STORM FLEX™

## 047 & 086 Series

### Superior mechanical performance in a trouble-free compact assembly

#### Miniature flexible cable assemblies

Design and test engineers will find Teledyne Reynolds STORM FLEX™ cables to be the ideal choice for solving many common application problems.

With diameters of only 1.4mm and 2.4mm, a very high tensile strength outer braid and an ultra low profile SMA straight plug, STORM FLEX™ offers superior mechanical performance in a trouble-free compact assembly.

STORM FLEX™ is an ideal choice when:

- Development of complex semi-rigid cable drawings is prohibitive regarding time or cost
- You need to eliminate expensive SMA right-angle connectors
- The installation of standard miniature cable assemblies has caused expensive and hard-to-find failures
- High density devices require stable, miniature cable assemblies for connection during test procedures



FEATURES	BENEFITS
■ Solid PTFE dielectric	■ High compression resistance and greater durability
■ Ultra-high strength, multilayer outer braid	■ Eliminates cable breakage associated with repeated handling of small flexible and hand formable cable types
■ 1.4mm and 2.4mm diameters	■ Provides alternatives to semi-rigid cable by eliminating costs associated with time-consuming cable layout
■ Wide range of connectors including low profile SMA, GPO™ and GPPO™	■ STORM FLEX™ can be configured to solve tough packaging challenges

Superior mechanical performance in a trouble-free compact assembly

## Construction

Centre conductor material	Solid, silver plated, copper clad steel
Dielectric material	Solid PTFE
Primary shield	Silver plated copper ribbon braid
Secondary shield	Silver plated stainless steel round braid
Jacket material	Extruded FEP

## Electrical Specifications

	047 Series	086 Series
Maximum operating frequency	50 GHz	50GHz
Impedance	50 ± 2 Ω	50 ± 2 Ω
Attenuation (nominal) at 2 GHz at 10 GHz at 18 GHz	1.9 dB / metre 4.5 dB / metre 6.2 dB / metre	0.9 dB / metre 2.2 dB / metre 3.1 dB / metre
VSWR (typical) Up to 2 GHz 2 – 10 GHz 10 – 18 GHz 18 – 30 GHz	1.07 : 1 1.15 : 1 1.15 : 1 1.25 : 1	1.05 : 1 1.10 : 1 1.16 : 1 1.25 : 1
Shielding effectiveness	≥ 85 dB at 18 GHz	≥ 90 dB at 18 GHz
Capacitance (nominal)	94.8 pF / metre	95.1 pF / metre
Propagation delay (nominal)	4.76 ns / metre	4.76 ns / metre
Phase matching	Available on request	Available on request

Specifications subject to change without notice.

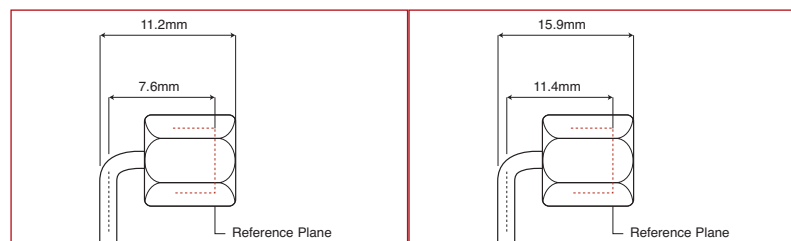
## Mechanical Specifications

	047 Series	086 Series
Cable diameter (nominal)	1.4mm	2.4mm
Minimum centreline bend radius	15.3mm (dynamic) 2.5mm (static)	25.4mm (dynamic) 4.8mm (static)
Temperature range	-54°C to +125°C	-54°C to +125°C
Connector retention	4.50 kg (straight pull) 2.25 kg (right angle pull)	4.50 kg (straight pull) 4.50 kg (right angle pull)
Weight	5.05 g / metre	17.20 g / metre
Suitable connectors	2.4mm, SMA, GPO™, GPPO™ <i>Others available on request</i>	2.4mm, SMA, GPO™, GPPO™ <i>Others available on request</i>

## Ultra Low Profile SMA plug

### 047 Series

### 086 Series



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