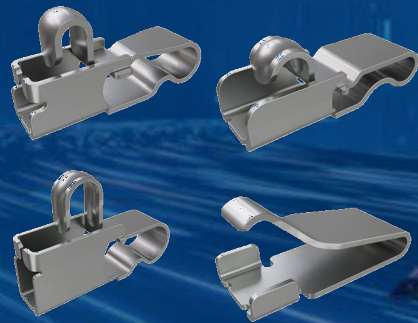


Amphenol

COMMUNICATIONS SOLUTIONS

FCI Basics
Universal Contact
Product presentation

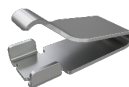


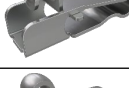
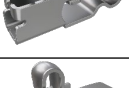

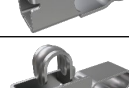


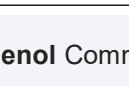


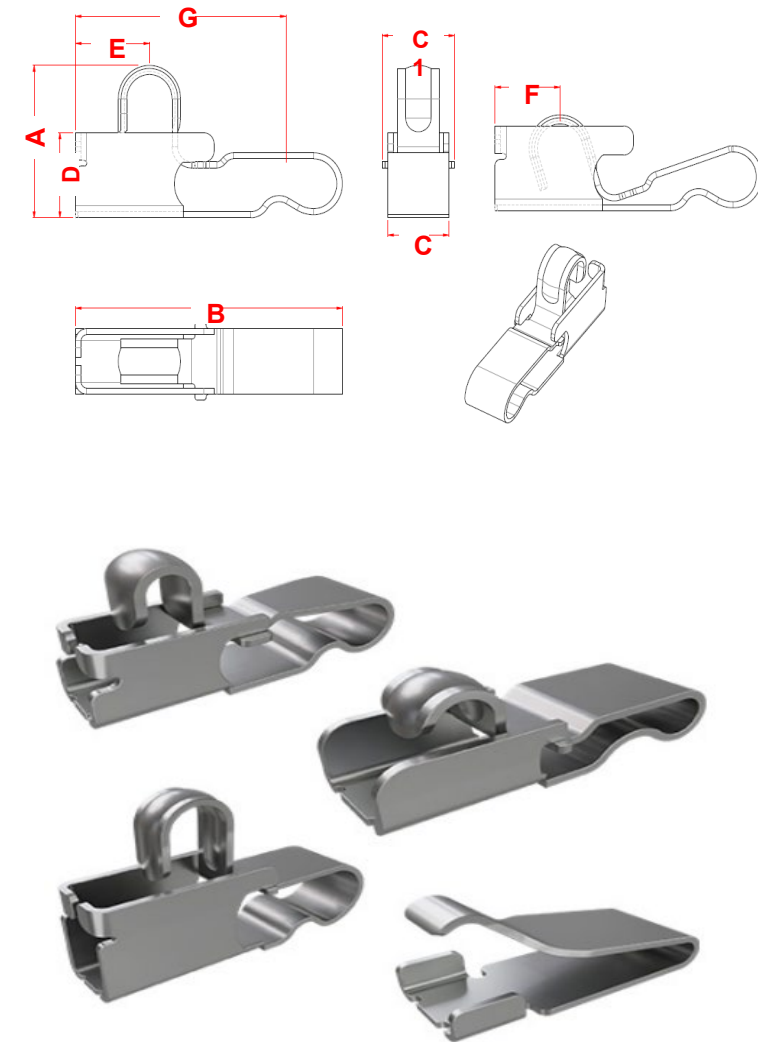
FCi Basics

Universal contact is a widely usage, higher reliability, lower cost interconnect solution.

- A single piece of stamped and formed copper alloy, for lower power delivery and low speed signal contact
- Free heights ranging from 1.2mm to 4.1mm, working height 0.5mm to 2.5mm
- 100 mating cycles
- Low contact resistance, 2A max continuous current rating (10123973-004RLF is 1A)
- Available in BeCu or TiCu
- Suitable for handled device charging, antenna to PCB connection, grounding connection, etc...

Product Overview

Part Number	Photo	A	B	C	C1	D	E	F	Working Height
10123973-004RLF		1.20±0.15/-0	2.60±0.10	1.10±0.10	/	0.40±0.05	0.32±0.10	0.15min	0.50±0.05
10094594-009RLF		1.30±0.10	3.48±0.10	1.40±0.10	1.50±0.10	0.77±0.10	0.80±0.20	0.30min	1.00±0.10
10104320-009RLF		1.30±0.10	3.48±0.10	1.10±0.10	1.30±0.10	0.72±0.10	0.80±0.20	0.30min	1.00±0.10
10115748-009RLF		1.55±0.10	3.48±0.10	1.40±0.10	1.50±0.10	0.87±0.10	0.80±0.20	0.30min	1.02±0.10
10103955-009RLF		1.80±0.10	3.40±0.13	0.90±0.10	1.10±0.10	0.95±0.10	0.84±0.20	0.47min	1.10±0.10
10125000-009RLF		2.10±0.10	3.40±0.13	1.10±0.10	1.20±0.13	1.20±0.10	0.90±0.20	0.30min	1.60±0.05
10128200-009RLF		2.1±0.10	3.4±0.13	1.10 ±0.10	1.20±0.13	1.25 ±0.10	0.90 ±0.20	0.30min	1.60±0.05
10104319-009RLF		2.50±0.10	4.87±0.15	0.98±0.10	1.28±0.10	1.40±0.10	1.19±0.20	0.74min	1.55±0.10
10104321-009RLF		3.50±0.10	5.00±0.13	1.10±0.10	1.40±0.10	2.00±0.10	1.65±0.20	0.50min	2.20±0.10
10128875-009RLF		4.1±0.10	5.00 ±0.13	1.10 ±0.10	1.40 ±0.10	2.30 ±0.10	1.65 ±0.20	0.40min	2.50±0.10



Specifications

- Product Specification: GS-12-500

Electrical Performances

- LLCR < 20mΩ (10123973-004RLF is < 50 20mΩ)
- Current Rating: 2A max continuous current rating (10123973-004RLF is 1A)
- Voltage rating: 12V

Mechanical Performance

- Durability: 100 cycles
- Normal force: refer to the product specification

Materials

- Base material: Copper Alloy or Stainless Steel
- Plating:
 - Contact area: Plating shall be gold or GXT or Tin over Ni under plate.
 - Solder tail: Plating shall be gold flash or Tin over Ni under plate.

Environmental

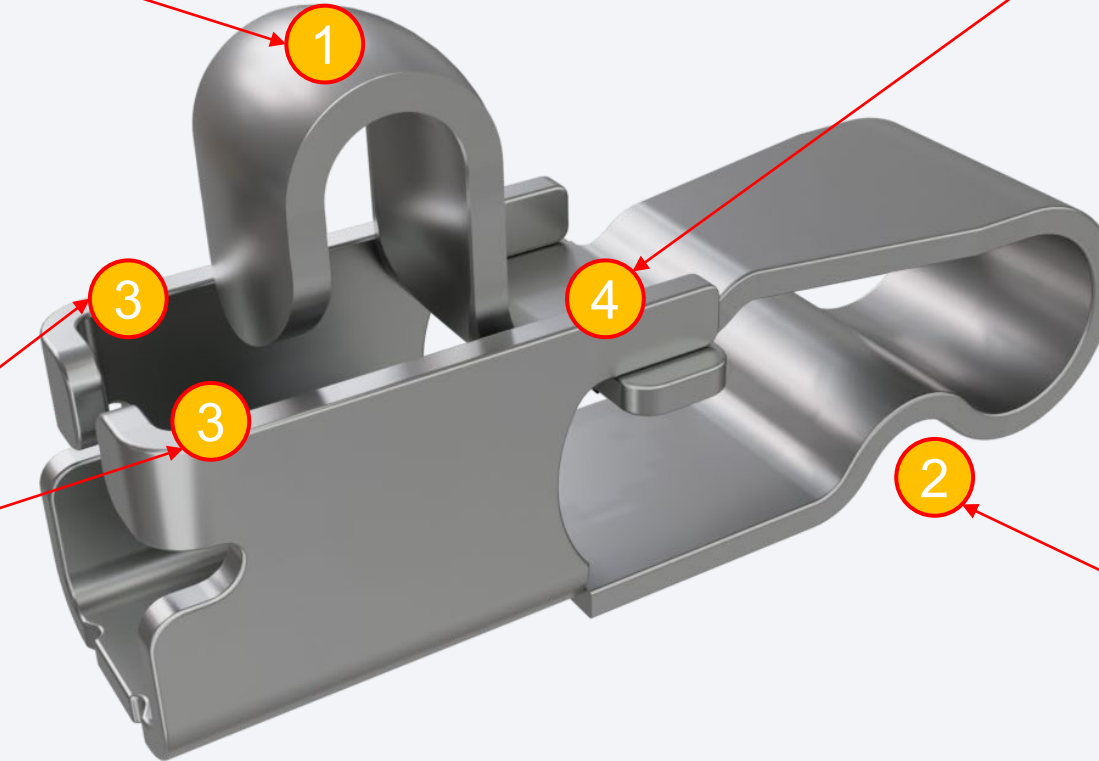
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- RoHS compliant
- Lead free, Halogen free

Packaging

- Tape and reel

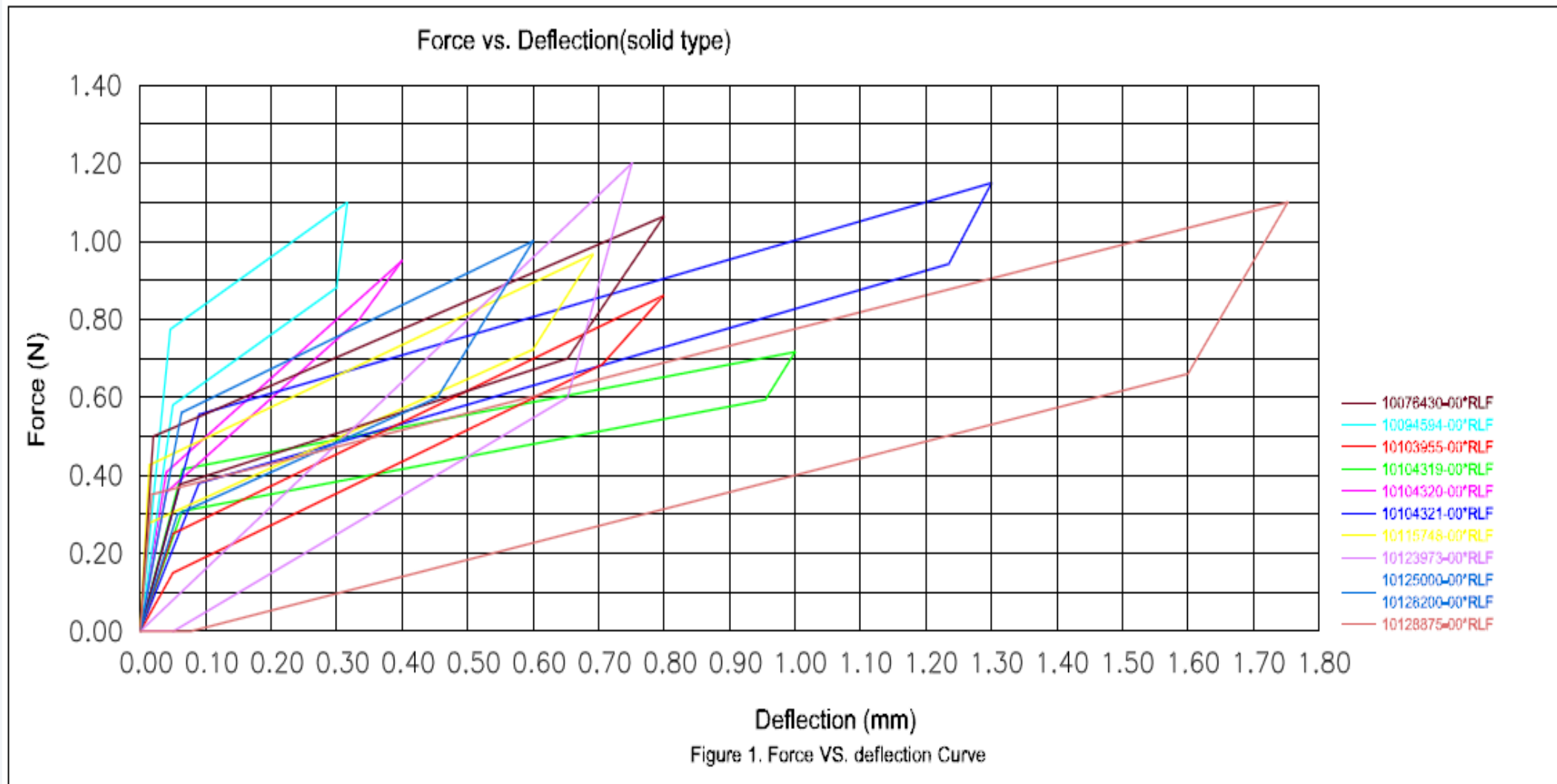
Domed contact points for good normal force and low contact resistance

Pre-load tabs provide >0.3N of precompression force



The “side wings” protect the moving beam and prevent the beam from being overstressed and damaged

Solder well design prevents solder paste and flux wicking up the contact



Consumer

- Mobile Phone



- Handheld Devices



- Bluetooth tracker



Datacom

- Switch



Medical

- Covid tester



- Breathing machine



Storage

- SSD



Marketing Tools

- Samples available (check with sample room Tatabanya : samples.global@amphenol-eu.com)
- Website quick link: [Landing Page](#)
- Available on website
 - Drawings
 - 3D Models
 - Datasheet
 - Product specifications
 - Product presentation

THANKS