



Adapted to

- Hirose U.FL / H.FL
- I-PEX MHF
- Murata GSC
- Sunridge MCF
- Various others



M2M ACCESSORIES FOR RF DATA-MODULES

Huge extended product range ...

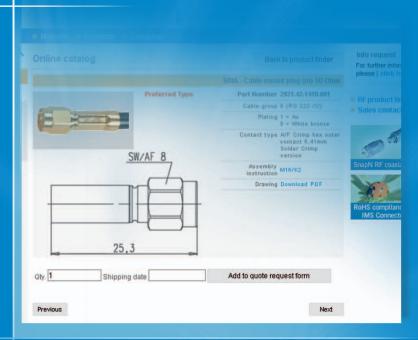
SMA Reverse Polarity connector and protection caps



TNC Reverse Polarity connector and protection caps



Professional online catalogue



Our online catalogue at www.imscs.com contains our complete product range and is continuously updated with new products.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be constructed as recommendation to infringe existing patents.

Why choose IMS-CS pigtails?

- · Choose only the original Hirose, I-Pex and muRata U.FL, H.FL, MHF and GSC miniaturized connectors
- Strong focus on individual tailor-made solutions, matching your expectations
- Wide range of coaxial antenna panel connectors
- Excellent RF performance for entire pigtail cable assembly
- First class stability and quality control
- No compatibility issues with Hirose/muRata copies

Choose your tailor-made and individual interface

Length	Any length per customer request
RF Connector side 1	Miniaturized U.FL/H.FL/MHF/GSC cable assemblies available Market expectation: preferable U.FL
RF Connector side 2	Entire RF connector series
Coaxial cables	0.81 mm / 1.13 mm / 1.32 mm / 1.37 mm Market expectation: preferable 1.32 mm
Frequency range	Up to 6 GHz





No compromise regarding quality

The growing popularity for miniaturized U.FL, H.FL, MHF and GSC connectors is thanks to their extreme small size, which makes them ideal for a variety of space-critical applications. Operating at up to 6 GHz, their low profile of 2.5 mm and a footprint of only 3 mm² guarantee the highest packaging densities.

The IMS-CS pigtail cable assemblies are available in any lengths and are eminently adaptable for a very wide range of various high quality RF-coaxial connectors.

As the demand for higher quality and reliability for cable assemblies increases, IMS Connector Systems, a first-class German company, offers you top-grade process stability and quality control.

IMS Connector Systems

IMS Connector Systems is an international, technology-driven company, specializing in the development and production of high frequency connections.

The product range includes a large assortment of coaxial RF-coaxial connectors, coaxial cable assemblies, RF test switches, RF antenna switches, test adapters and test assemblies, as well as antennas for mobile devices.

IMS Connector Systems also has a strong R&D division and is able to offer its customers tailored RF solutions for individual applications.



M2M (Machine to Machine) Accessories for RF-data modules

Cable assemblies with miniaturised Hirose-, I-PEX- and muRata-connectors

The cable assemblies with miniaturised Hirose, muRata and I-PEX connectors can be supplied in different lengths and with different coaxial connectors specially designed for ultra small Hirose U.FL, Hirose H.FL, muRata GSC and I-PEX MHF pigtails. The cable dimensions range from Ø 0,81mm to Ø 1,8mm. They are used for antenna connections in wireless GPS and GSM modules as well as for many other applications where space is limited and cable connections are required. The cable assemblies have an impedance of 50 ohm and feature superior RF performance up to 6 GHz.



The term "reverse-polarity connector" is used where, for example a standard cable plug has a female center contact, instead of a male center contact. Reverse polarity connectors are very popular in the M2M market, like WLAN applications. Mainly there are 2 connector series used, RP-SMA and RP-TNC. The operation frequency range last at RP-SMA up to 18 GHz, at RP-TNC up to 6 GHz. The impedance is 50 Ohm.



Protection Caps

To protect non adapted interconnections, the RF Connectors can be equipped with protection caps. These caps offer protection against dust and water penetration. The protection caps are available for SMA, TNC and N types. There are variations available with and without straps.



For various applications and markets

These cable assemblies are used in applications like Wireless LAN, GPS, GSM, UMTS, Bluetooth, DVD-T, and PC cards for all kinds of embedded systems.











S

Telemedicine



IMS-CS cable assemblies with Hirose pigtails are available in combination with below listed RF coaxial connectors.

FME bulkhead plug (m) 50 ohm		
	K-	t No. Cable type 1992 Hirose U.FL-LP-066 Ø 1,32 mm* 2356 (Panel sealing) Hirose U.FL-LP-066 Ø 1,32 mm* Plating 9= Ni
		Other platings on request
FME bulkhead plug (m) 50 ohm		
		rt No. Cable type 8068 Hirose U.FL-LP-066 Ø 1,32 mm* Plating
		9 = Ni Other platings on request
FME bulkhead plug (m) 50 ohm		
- ME backflead plug (III) 30 011111		t No. Cable type
THE RESIDENCE OF THE PARTY OF T	· · ·	t No. Cable type 991 Hirose U.FL-LP-066 Ø 1,32 mm* Plating
		9 = Ni Other platings on request
CMA haddahaad iaala (6) 50 ahaa		Other plannings on request
SMA bulkhead jack (f) 50 ohm	2	0.11-1
	· ·	t No. Cable type 994 Hirose U.FL-LP-066 Ø 1,32 mm*
		Plating 1 = Au Other platings on request
SMA bulkhead jack (f) 50 ohm		
		t No. Cable type 2642 Hirose H.FL LP-111-A Ø 1,48 mm*
		Plating 1 = Au Other platings on request
SMA bulkhead jack (f) 50 ohm		
	•	t No. Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
— 10		Plating 3 = NiP + Au



IMS-CS cable assemblies with Hirose pigtails are available in combination with below listed RF coaxial connectors.

SMA flange mount cable jack (f) 50	ohm		
	Front mounting	Part No. K-2145	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request
SMA bulkhead angle jack (f) 50 ohn	n		
	Rear mounting	Part No. K-2439	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 5 = White bronze Other platings on request
SMA cable mount plug (m) 50 ohm			
		Part No. K-1993	Cable type Hirose U.FL-LP-066 Ø 1.32 mm*
			Plating 1 = Au Other platings on request
RP-SMA bulkhead plug (m) 50 ohm			
	Rear mounting	Part No. K-2411	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request
RP-SMA bulkhead plug (m) 50 ohm			 ID 48
	Rear mounting	Part No. K-2420	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request
TNC bulkhead jack (f) 50 ohm			
	Front mounting	Part No. K-2399	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 9 = Ni



IMS-CS cable assemblies with Hirose pigtails are available in combination with below listed RF coaxial connectors.

TNC flange mount cable jack (f)	50 ohm		
	Front mounting	Part No. K-2601	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 5 = White bronze Other platings on request
TNC bulkhead angle jack (f) 50	ohm		IP 67
	Rear mounting, Panel sealing	Part No. K-2580	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 5 = White bronze Other platings on request
N bulkhead jack (f) 50 ohm			
	Rear mounting,	Part No.	Cable type
	Panel sealing	K-2445	Hirose U.FL-LP-066 Ø 1.32 mm* Plating 5 = White bronze
			Other platings on request
SMBA® bulkhead plug (m) 50 oh	m		
	Top mounting	Part No. K-2490	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 9 = Ni Other platings on request
SMBA® bulkhead plug (m) 50 oh	m		
	Front mounting Panel press-in type	Part No. K-2086	Cable type Hirose U.FL-LP-066 Ø 1.32 mm*
			Plating 9 = Ni Other platings on request
SMBA® bulkhead plug (m) 50 oh	m		
	Front mounting Panel screw-in type	Part No. K-2617	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 9 = Ni Other platings on request



IMS-CS cable assemblies with Hirose pigtails are available in combination with below listed RF coaxial connectors.

SMBA® bulkhead plug (m) 50 ohm			
	Front mounting Panel clamping type	Part No. K-2352	Cable type Hirose U.FL-LP-066 Ø 1.32 mm*
			Plating 9 = Ni Other platings on request
SMBA® bulkhead plug (m) 50 ohm			
	Top mounting	Part No. K-3028	Cable type Hirose U.FL-LP-066 Ø 1.32 mm*
			Plating 9 = Ni Other platings on request
SMB bulkhead plug (m) 50 ohm			
	Top mounting	Part No. K-1995	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 1 = Au Other platings on request
SMC bulkhead plug (m) 50 ohm			
	Rear mounting	Part No. K-2423	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request
DIN 41626 cable mount plug (m) 50 ohm			
	Insert type	Part No. K-2500	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request



Insert type

Part No. K-2436

Cable type Hirose U.FL-LP-066 Ø 1,32 mm*

Plating 3 = NiP + AuOther platings on request



IMS-CS cable assemblies with Hirose pigtails are available in combination with below listed RF coaxial connectors.

D-Sub cable mount jack (f) 50 o	hm		
	Insert type	Part No. K-2438	Cable type Hirose U.FL-LP-066 Ø 1.32 mm* Plating
			3 = NiP + Au Other platings on request
D-Sub cable mount jack (f) 50 o	hm		
		Part No. K-2632	Cable type Hirose H.FL LP-111-A Ø 1.48 mm*
			Plating 1 = Au
			Other platings on request
SMP cable mount jack (f) 50 oh	m		
		Part No. K-2365	Cable type Hirose U.FL-LP-066 Ø 1.32 mm*
			Plating 3 = NiP + Au Other platings on request
SMP cable mount angle jack (f)	50 ohm		
		Part No. K-2250 K-2397	Cable type Hirose U.FL-LP-066 Ø 1.32 mm* Hirose U.FL-LP-066 Ø 1.32 mm* Plating 1 = Au Other platings on request
CMD soble manual and (4)	E0 ab ==		other plannings on request
SMP cable mount angle jack (f)	Space optimize	d Part No.	Cable time
	Space opininze	и Fattwo. К-2594	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request
MMCX cable mount plug (m) 50	ohm		g
- Hillow Cable Mount plug (III) 50	OTITI	Part No.	Cable type
		K-2373	Hirose U.FL-LP-066 Ø 1.32 mm*

Plating 3 = NiP + Au



IMS-CS cable assemblies with Hirose pigtails are available in combination with below listed RF coaxial connectors.

MMCX cable mount angle plug (m) 50 ohm		
	Part No. K-2372	Cable type Hirose U.FL-LP-066 Ø 1.32 mm*
		Plating 1 = Au Other platings on request
SMR-Nano cable mount jack (f) 50 ohm		
	Part No. K-2371	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
		Plating 5 = White bronze Other platings on request
Double-sided Hirose U.FL plug (m) 50 ohm		
	Part No. K-2743	Cable type Hirose U.FL-2LP-066 Ø 1.32 mm*
		Plating 4 = Ag Other platings on request
Second side stripped cable (m) 50 ohm		
	Part No. K-2744	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
		Plating 4 = Ag



Cable assemblies with I-PEX MHF connectors

IMS-CS cable assemblies with I-PEX pigtails are available in combination with below listed RF coaxial connectors.

FME bulkhead plug (m) 50ohm			
	Rear mounting	Part No. K-6422	Cable type I-PEX MHF 20278-112R32 Ø 1.32 mm* Plating
			9 = Ni Other platings on request
SMA bulkhead jack (f) 50 ohm			
	Rear mounting	Part No. K-6423	Cable type I-PEX MHF 20278-112R32 Ø 1,32 mm*
			Plating 1 = Au Other platings on request
SMA bulkhead jack (f) 50 ohm			
		Part No.	Cable type
		K-6469	RG 178 Ø 1,8 mm* Plating
			1 = Au Other platings on request
RP-SMA bulkhead jack (f) 50 ohm			
	Rear mounting	Part No. K-6424	Cable type I-PEX MHF 20278-112R32 Ø 1,32 mm*
			Plating 1 = Au Other platings on request
RP-TNC cable mount plug (m) 50	ohm		
		Part No. K-2690	Cable type I-PEX MHF 20278-112R-32 Ø 1,32 mm*
			Plating 1 = Au Other platings on request
D-Sub cable mount plug (m) 50 o	hm		
		Part No.	Cable type
		K-2633	I-PEX MHF 20278-112R-32 Ø 1,32 mm*
			Plating 3 = NiP + Au Other platings on request



Cable assemblies with I-PEX **MHF** connectors

Plating

1 = Au
Other platings on request

IMS-CS cable assemblies with I-PEX pigtails are available in combination with below listed RF coaxial connectors.

MCX cable mount plug (m) 50 ohr	n		
		Part No. K-2604	Cable type I-PEX MHF 20351-112R-37 Ø 1.37 mm* Plating
			3 = NiP + Au Other platings on request
MCX bulkhead jack (f) 50 ohm			other patings on request
MCA Butkileau jack (1) 30 ollill	D	Double.	0.11.1
	Rear mounting	Part No. K-2611	Cable type I-PEX MHF 20278-112R32 Ø 1.32 mm*
			Plating 3 = NiP + Au Other platings on request
Mini-Coax cable mount jack (f) 50) ohm		
		Part No. K-6412	Cable type I-PEX MHF 20351-112R-37 Ø 1,37mm*
			Plating 3 = NiP + Au Other platings on request
Mini-Coax cable mount plug (m)	50 ohm		
		Part No. K-6410	Cable type I-PEX MHF 20351-112R-37 Ø 1.37 mm*
			Plating 3 = NiP + Au Other platings on request
Double-sided I-PEX MHF plug (m) 50 ohm		
		Part No. K-6403	Cable type I-PEX MHF 20351-112R-37 Ø 1,37 mm*
			Plating 1 = Au Other platings on request
Double-sided I-PEX MHF plug (m) 50 ohm		
		Part No. K-6404	Cable type I-PEX MHF 20278-112R32 Ø 1.32 mm*



Cable assemblies with I-PEX MHF connectors

IMS-CS cable assemblies with I-PEX pigtails are available in combination with below listed RF coaxial connectors.

Double-sided I-PEX MHF plug (n) 50 ohm	
	Part No. K-6460	Cable type RG 178 Ø 1.8 mm*
		Plating 1 = Au Other platings on request
Second side stripped cable (m)	50 ohm	
	Part No. K-6414	Cable type I-PEX MHF 20278-112R32 Ø 1.32 mm*
-		
		Plating 1 = Au Other platings on request



Cable assemblies with muRata GSC and Sunridge MCF connectors

IMS-CS cable assemblies with muRata pigtails are available in combination with below listed RF coaxial connectors.

Plating 3 = NiP + Au Other platings on request

FME bulkhead plug (m) 50 ohm			
	Top mounting	Part No. K-1791	Cable type muRata MX TK88 Ø 0.83 mm*
40			Plating 9 = Ni Other platings on request
FME bulkhead (m) 50 ohm			
	Rear mounting	Part No. K-1902	Cable type muRata MX TK88 Ø 0,83 mm*
			Plating 5 = White bronze Other platings on request
SMA bulkhead jack (f) 50 ohm			
	Rear mounting	Part No. K-1851	Cable type muRata MX TK88 Ø 0.83 mm*
			Plating 1 = Au Other platings on request
SMA cable mount plug (m) 50 ohm			
		Part No. K-1818	Cable type muRata MX TK88 Ø 0,83 mm*
			Plating 1 = Au Other platings on request
D-Sub cable mount plug (m) 50 ohm			
		Part No. K-2689	Cable type MCF Ø 1.13 mm*
			Plating 1 = Au Other platings on request
MMCX cable mount plug (m) 50 ohm			
		Part No. K-2375	Cable type muRata MX TK88 Ø 0,83 mm*



Cable assemblies with muRata GSC and Sunridge MCF connectors

IMS-CS cable assemblies with muRata pigtails are available in combination with below listed RF coaxial connectors.

Other platings on request

MMCX cable mount angle plug (m) 50 ohm Part No. K-2142 RATE MO. K-2142 Plating 3 = NiP + Au

"Reverse polarity connectors" RP-SMA, RP-TNC

RP-SMA bulkhead plug (m) 50 ohm



Small flange

Part No. 2963.42.1414.213 Cable type RG 178, RG 196

Plating 3 = NiP + Au

Other platings on request

RP-SMA bulkhead plug (m) 50 ohm



Large flange

Part No. 4346.42.1410.043 (without panel sealing) Cable type

Hirose U.FL-LP-066 Ø 1,32 mm

Plating 3 = NiP + Au

Other platings on request

RP-SMA bulkhead plug (m) 50 ohm



Large flange

Part No. 4401.42.1410.043 (with panel sealing) Cable type

Hirose U.FL-LP-066 Ø 1,32 mm

Plating

3 = NiP + Au

Other platings on request

RP-SMA cable mount jack (f) 50 ohm



Part No. 4026.42.2410.023 4447.42.2410.083

Cable type RG 174 LMR 195

Plating

3 = NiP + Au

Other platings on request

RP-SMA cable mount angle jack (f) 50 ohm



Part No.

4024.42.2420.023

Cable type RG 174

Plating

3 = NiP + Au

Other platings on request

RP-SMA pcb mount plug (m) 50 ohm



Short neck version

Part No 4344 42 1510 003

> Plating 3 = NiP + Au

Other platings on request

RP-SMA pcb mount plug (m) 50 ohm



Long neck version

Part No 4423.42.1510.003

> Plating 3 = NiP + Au

"Reverse polarity connectors" RP-SMA, RP-TNC

RP-SMA pcb mount plug (m) 50 ohm



Part No. 4023.42.1610.003

> Plating 3 = NiP + Au

Other platings on request

RP-SMA pcb mount angle plug (m) 50 ohm



Part No. 4345.42.1520.001

> Plating 1 = Au

Other platings on request

RP-TNC cable mount plug (m) 50 ohm



Part No. K-2690

Cable type

I-PEX MHF 20278-112R-32 Ø 1,32 mm*

Plating

1 = Au

Other platings on request

RP-TNC pcb mount plug (m) 50 ohm



Optional screw fixation

Part No. 4486.02.1020.005

> Plating 9 = Ni

Other platings on request

RP-TNC cable mount jack (f) 50 ohm



Part No 4485.02.2010.089 4723.02.2010.089

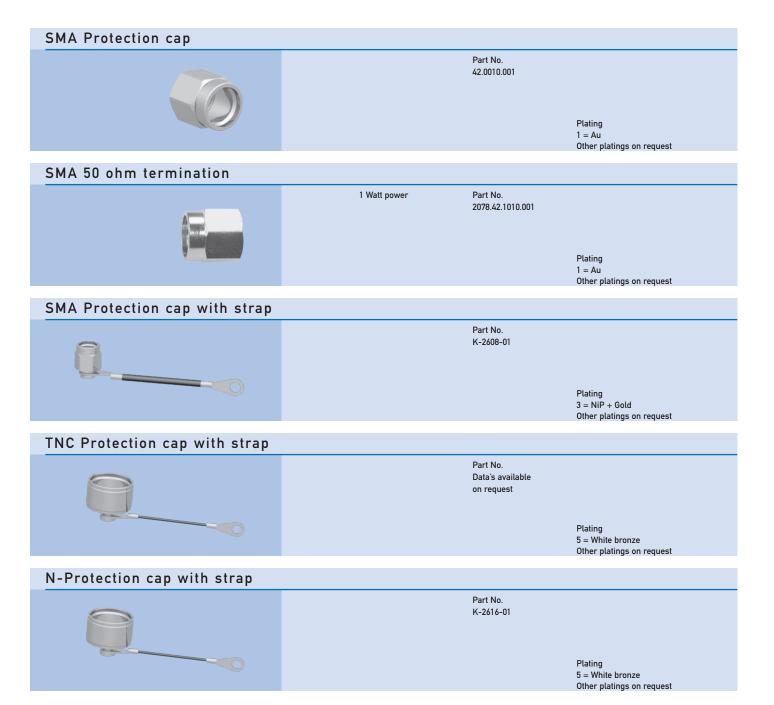
Cable type RG 58

LMR 195 Preliminary, in progress

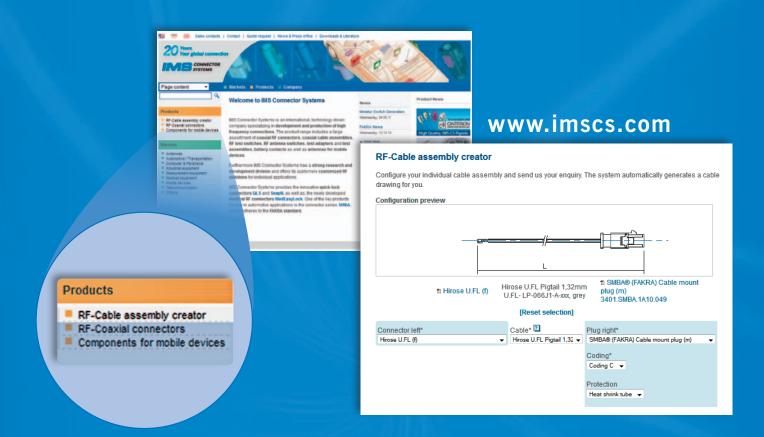
Plating

9 = Ni

"Protection caps" for M2M Applications



Innovative solution provider for RF-cable assemblies



WEB based RF-cable assembly creator

Create YOUR individual cable assembly drawing in a few minutes by yourself!



This interactive online tool enables you to create an individual cable assembly very easily and in only a few steps. Select from over 200 RF connectors and over 30 cable types for the best combination to meet your application. In addition to the required length of the cable assembly, as well as, the desired cable feeder and alignment you can also create your own specific label.

After the configuration is complete the program automatically generates a detailed technical drawing as a PDF. You can save this drawing and / or use this for a request. Since most connectors and cables which are in the cable assembly creator are part of IMS CS's standard product range, fast query processing are guaranteed and short delivery times are in all probability.

Please contact us directly if you did not find the requested RF components in the cable assembly creator.

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