



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.











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

FME bulkhead plug (m) 50 ohm			
	Rear mounting	Part No. K-1992 K-2356 (Panel sealing)	Cable type Hirose U.FL-LP-066 Ø 1,32 mm* Hirose U.FL-LP-066 Ø 1,32 mm* Plating 9= Ni Other platings on request
FME bulkhead plug (m) 50 ohm			
	Front mounting	Part No. K-3068	Cable type Hirose U.FL-LP-066 Ø 1,32 mm* Plating 9 = Ni Other platings on request
FME bulkhead plug (m) 50 ohm			
- Butkneau ptug (iii) 30 0iiiii	Ton mounting	Part No.	Cable time
	Top mounting	Fart No. K-1991	Cable type Hirose U.FL-LP-066 Ø 1,32 mm* Plating 9 = Ni Other platings on request
SMA bulkhead jack (f) 50 ohm			
	Rear mounting	Part No. K-1994	Cable type Hirose U.FL-LP-066 Ø 1,32 mm* Plating 1 = Au Other platings on request
SMA bulkhead jack (f) 50 ohm			
West additional pack (i) so similar	Rear mounting. Panel sealing	Part No. K-2642	Cable type Hirose H.FL LP-111-A Ø 1,48 mm*
			Plating 1 = Au Other platings on request
SMA bulkhead jack (f) 50 ohm			
	Rear mounting	Part No. K-2491	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
			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*
V			Plating 3 = NiP + Au Other platings on request
SMA bulkhead angle jack (f) 50	ohm		
	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 of	nm		
		Part No. K-1993	Cable type Hirose U.FL-LP-066 Ø 1,32 mm*
9888888			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			
	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*



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 6
	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			IP 6
	Rear mounting. Panel sealing	Part No. K-2445	Cable type 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

DIN 41626 cable mount jack (f) 50 ohm

Insert type

Part No. K-2436 Cable type

Hirose U.FL-LP-066 Ø 1,32 mm*

Other platings on request

Plating 3 = NiP + Au Other 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
SMP cable mount angle jack (f)	50 ohm		
	Space optimized	Part No. K-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		
		Part No. K-2373	Cable type 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 Other platings on request



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			omor pramigo on requeet
on the partitional factor (i) or comme		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			
THE BUTKHEAU JACK (I) 30 0HH	Rear mounting	Part No.	Cable type
	,	K-6424	I-PEX MHF 20278-112R32 Ø 1.32 mm*
			Plating 1 = Au Other platings on request
RP-TNC cable mount plug (m) 5	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	ohm		
		Part No. K-2633	Cable type 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 of	ım		
		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			
	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 (r	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 (r	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 (m) 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.

FME bulkhead plug (m) 50 ohm			
	Top mounting	Part No. K-1791	Cable type muRata MX TK88 Ø 0.83 mm* 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 oh	m		
		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 d	ohm		
		Part No. K-2689	Cable type MCF Ø 1,13 mm* Plating
			riding 1 = Au Other platings on request
MMCX cable mount plug (m) 50 o	hm		
		Part No.	Cable type
		K-2375	muRata MX TK88 Ø 0,83 mm*

Plating 3 = NiP + 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.

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

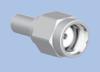
Hirose U.FL-LP-066 Ø 1,32 mm

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
Other platings on

"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

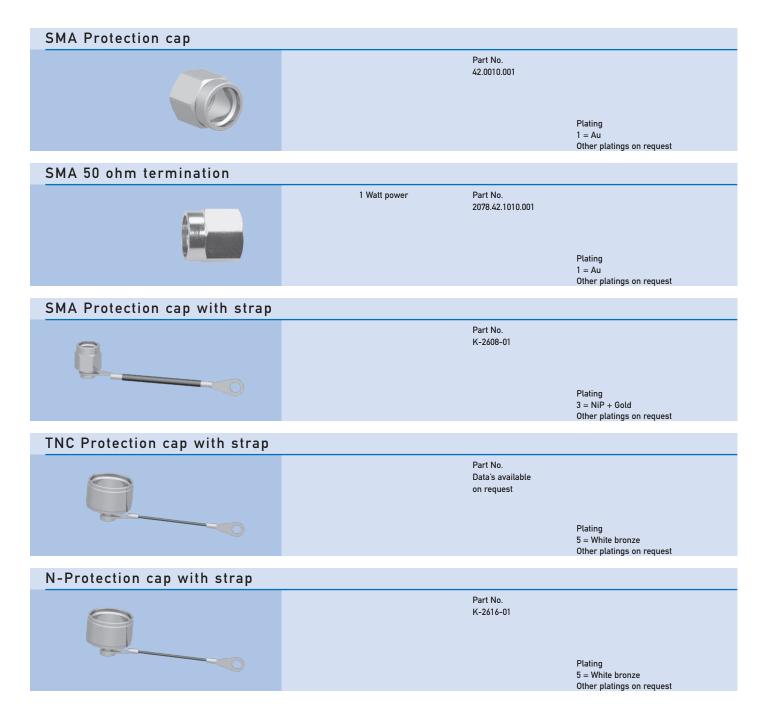
Cable type RG 58

LMR 195 Preliminary, in progress

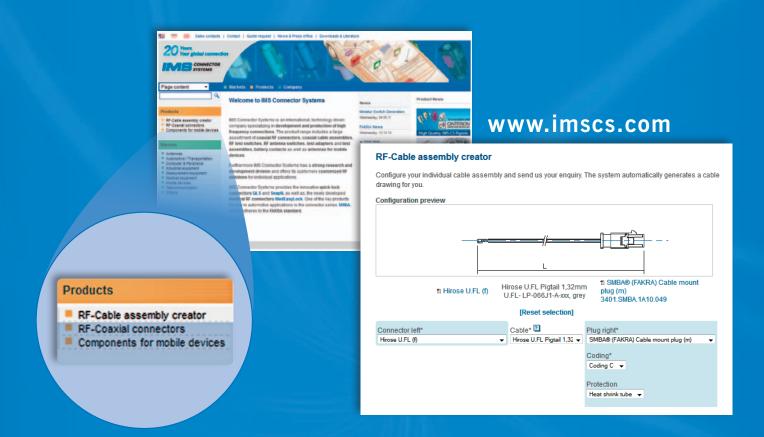
Plating

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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IMS Connector Systems

Head Office, Germany IMS Connector Systems GmbH Obere Hauptstraße 30 D-79843 Löffingen (+49)76549010Tel (+49)7654901199Fax Net www.imscs.com E-mail sales@imscs.com

IMS Connector Systems Kft Ipar körút 27 H-9400 Sopron Tel (+36)99513513Fax (+36)99513514E-mail hungary@imscs.com

China IMS Connector Systems Ltd

No 35, Huo Ju Road SND Science & Technology Park VCR-Suzhou 215011 (+86)51268081816Tel

(+86)51268252388Fax E-mail sales@imscscn.com

Northern Europe

IMS Connector Systems GmbH Obere Hauptstraße 30 D-79843 Löffingen Contact Elo Patricia Mayer Tel (+46)22180188(+49)7654901199Fax

E-mail emayer@imscs.com United Kingdom IMS Connector Systems GmbH

Obere Hauptstraße 30 D-79843 Löffingen Contact Graham Coleman Tel (+44)7867542413(+49)7654901199Fax

E-mail gcoleman@uk.imscs.com

USA

IMS Connector Systems Inc. 6606 Mapleshade Lane Dallas, TX 75252 Contact Thomas Strasser (+1) 972 6128515 Tel E-mail tstrasser@imscsusa.com

Distributors and Agents

Asia and Pacific

Invax System and Trading Corp. 4F, NO. 815, Chung HSIAO E. Road, SEC.5 RC-Taipei Tel (+886) 227885218 (+886) 227831658 Fax www.invax.com.tw invax@ms4.hinet.net E-mail

Austria, Hungary and Slovenia EPI Components Trade GmbH Industriepark Lieserbrücke Gewerbestraße 9 A-9851 Lieserbrücke (+43) 476240220 (+43) 47625451 Tel Fax www.epi.at E-mail office@epi.at

Belgium and Luxembourg ACAL N.V. Lozenberg 4 B-1932 Zaventem Tel (+32) 27205983 Fax (+32)27251014www.acal.be E-mail acal@acal.be

ACTE A/S Vallensbækvej 41 DK-2605 Brøndby (+45) 46900400 Tel Fax (+45)46900500www.acte.dk E-mail info@acte.dk

Estonia Antes Sales Oy Tehnika 1 A 46107 Tamsalu (+372)3255063 (+372)3255064 Tel Fax Net www.antessales.ee info@antessales.ee E-mail

Finland Milcon Ov FIN- 36240 Kangasala Tel (+358) 3 364 2810 Fax (+358) 3 364 2812 www.milcon.fi E-mail janne.korpinen@milcon.fi

France BFI Optilas 4 allée du Cantal ZI la Petite Montagne Sud CE1834 F-91018 Lisses Tel

(+33) 1 60 79 89 09 (+33) 1 60 79 89 03 Net www.bfioptilas.com E-mail info@bfioptilas.com

PN Electronics Le Gystalys 6 avenue Morane Saulnier F-78140 Vélizy-Villacoublay (+33) 1 39 45 15 50 (+33) 1 39 45 15 60 Fax E-mail sales@pne.fr

Germany North EVG Elektro-Vertriebs-Gesellschaft

Martens GmbH & Co KG Trompeterallee 244-246 D-41189 Mönchengladbach (+49)216655080 (+49)2166550890 Tel Fax Net www.evg.de E-mail info@evg.de

MC Technologies GmbH Kabelkamp 2 D-30179 Hannover (+49)5116769990 (+49)511676999150 Tel Fax Net www.mc-technologies.net E-mail info@mc-technologies.net

Germany South MTS Systemtechnik GmbH

Gewerbepark Ost 8

D-86690 Mertingen Tel (+49)9078912940 Fax (+49)90789129470 www.mts-systemtechnik.de Net

E-mail peter.doebber@mts-systemtechnik.de

MES Electronic Connect GmbH + Co.KG In der Lache 24

D-78056 VS-Schwenningen Tel (+49) 7720 945-200 Fax (+49) 7720 945-108 www.mes-electronic.de Net E-mail info@mes-electronic.de

Israel

ShirTech Ltd 2, Rozanski St. New Industrial Park IL-75706 Rishon Lezion Tel Fax (+972)3-9516495 (+972)3-9516493 Net www.shirtech.co.il

E-mail shirtech@bezeqint.net

Italy

CPE Italy s.p.a. Via Chiasserini 15 I-20157 Milano (+39) 02390961 (+39) 023570774 Tel Fax Net www.cpeitaly.it

E-mail sales@cpeitaly.it

Norway EC Partner as Bjørnerudveien 24 N-1205 Oslo (+47) 22766600 Tel Fax (+47) 22766601 www.ecpartner.no E-mail component@ecpartner.no

Connecta S.L. Pje. Salvador Espriu, 1-3. Planta 1^a. Local 3. 08908 Hospitalet de Llobregat Barcelona (+34) 90 2333 075 Tel

Spain and Portugal

(+34) 93 3779 151 Fax Net www.connectaeys.es E-mail info@connectaeys.es

Switzerland and Liechtenstein Precimation AG Erlenstrasse 35 A CH-2555 Brügg BE Tel (+41)323666999 (+41)323666990 Fax www.precimation.ch E-mail welcome@precimation.ch

United Kingdom Quadrant Connectors Ltd Bridgefoot House, Watling Street Radlett Hertfordshire WD7 7HT (+44) 1923851400 Fax (+44)1923857567www.quadrantconnections.com E-mail info@quadrantconnections.com

Flint Walker Road Bardon Hill Coalville Leicestershire, LE67 1TU England (+44) 1530510333 Tel (+44) 1530510275

www.flint.co.uk E-mail enq@flint.co.uk North America

Utech Electronics 5250 Finch Avenue East, Unit 1 Scarborough, Ontario Canada M1S 5A4 Tel (+416)6092900 (+416) 609 2588 Net www.utech.ca E-mail sales@utech.ca

Reichenbach International, Inc. 2080 Stonesgate Street
Westlake Village, California 91361, USA
Tel (+1) 805 495 7003
Fax (+1) 805 379 4310

Net www.reichenbachintl.com E-mail sales@reichenbachintl.com

TRG Components 5801 Lee Highway Arlington, VA 22207, USA (+1) 703 533 8555 (+1) 703 533 2079 Fax Net www.trgcomp.com E-mail pcox@trgcomp.com

