

FAKRA SMB Connectors Coaxial Cable



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# RESOIUTIONS for the Automotive Market

With recent advancements in communications technology and increased consumer demand for a diverse array of on-board telematics services, RF communications systems have become indispensable components of the modern automobile.

To keep RF interconnection costs low and ensure high levels of electrical and mechanical performance for telematics applications such as Global Positioning Satellite, Satellite Radio, Vehicular Internet Access, Remote vehicle diagnostics and Bluetooth, the German and American automotive industries have standardized a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards.

Utilizing a standard metal SMB connector embedded within a plastic housing that can be designed with multiple colored codes for easy identification, FAKRA connectors are designed to perform up to 4 GHz and meet the particular mechanical and environmental requirements of the automobile industry.

Amphenol RF's industry leading product line meets both the FAKRA and USCAR standards with the following features:

- 12 different mechanical and color codes
- Plastic housing with locking feature and audible clicking noise
- Minimum of 100 mating cycles
- Frequency range of DC 4 GHz
- Usable on multiple coaxial cables (RG-58, RG-174, RG-316, RG-178 and other micro-cables)
- Available in numerous connector configurations (straight and right angle solutions for cable applications, as well as edge-launch and PCB designs)

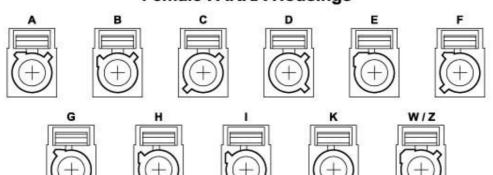
Along with the growth of RF connection devices in the car, the need for coaxial cable has grown to a level which could require twice the amount of cable which goes into a home (over 100+ feet per car). To meet this demand, Amphenol's Times Fiber Communications division has developed a portfolio of cable products to meet the needs of the automotive industry. TFC's automotive cables are manufactured utilizing the highest quality materials and workmanship available:

- Lowest Signal Loss
- Multiple Shielding Options Available
- 100 % Quality Testing Electricals, Physicals
- Superior TFC/Amphenol Product Development

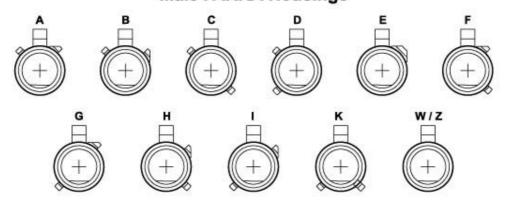
#### **Mechanical and Color Coding**

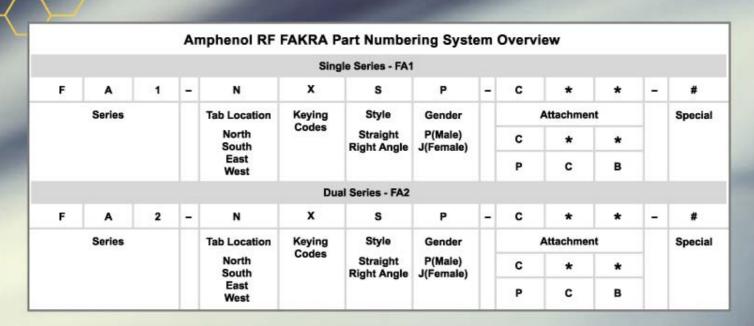
Coding	Rib Combination	Color	Similar RAL No.
A	A - B1	Deep Black	9005
В	A - B2	Signal White	9003
С	A - C	Signal Blue	5005
D	A - D	Bordeaux Violet	4004
E	B1 - B2	Leaf Green	6002
F	B1 - C	Brown (	8011
G	B1 - D	Blue Grey 《	7031
н	B2 - C	Heather Violet	4003
1	B2 - D	Beige (	1001
к	C - D	Curry Yellow	1027
w	Neutral Coding	Signal White	9003
z	Neutral Coding	Water Blue	5021

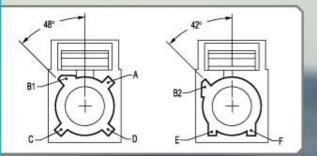
## Female FAKRA Housings

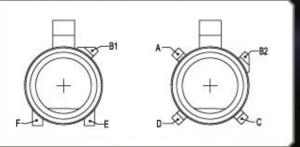


### Male FAKRA Housings









_	
**	Cable Group Codes
00	RG-58/RG-174 Combo Design
01	RG 174, 188, 316
04	RG 58, 141
09	Cables with .057 OD
10	RG-178, .071 OD Cables
13	RG-174 LL Cable

#	Special Codes ( Female )
0	Standard
3	360° Design (R/A only)
6	Clip provision at 180°
#	Special Codes ( Male )
#	Special Codes ( Male ) Standard Bracket
-	
0	Standard Bracket

#	Special Codes ( Male PCB )
0	Edge Card
1	Edge Card W/ Support Legs
2	Vertical Mount
6	R/A Extended Nose (Gold)
8	R/A Extended Nose (Tin)
9	R/A Extended Nose (Nickel)
м	Die Cast R/A
s	Stamped & Formed R/A

2 GHz - 4 GHz

#### FAKRA SMB Product Specifications

FI			

Impedance 50 Ω Frequency Range DC - 4 GHz SAE/USCAR-17, 18 Performance Spec

V.S.W.R.

1.40 max. 1.50 max. spec requirement 1.15 max. 1.25 max. straight SMB male and female(cable group 1) 1.20 max. 1.35 max. RIA SMB male and straight female(cable group 1) 1.10 max. 1.15 max. straight SMB male and female(cable group 4)

at sea level

Insertion Loss spec requirement

up to 1 GHz < .1 dB < .2 dB up to 2 GHz < .3 dB up to 4 GHz

DC - 2 GHz

Insulation Resistance

1000 M Ω min Center Contact Resistance  $< 20 \text{ m}\Omega$ center contact < 10 mΩ outer contact Dielectric Withstanding Voltage > 1000 VRMS

#### MECHANICAL

Durability (matings) 100 min Plastic Housing - Engagement Force ≤ 20 N Plastic Housing - Disengagement Force ≥ 25 N Cable Retention Force cable group 1 ≥ 110 N cable group 4 ≥ 180 N

Coding

12 mechanical and colored codings

< .3 dB max from DC - 3 GHz

#### **ENVIRONMENTAL**

-40 / +115° C Temperature Range operating

MIL-STD-202, Method 107, Cond. B Thermal Shock (-55 / +125° C)

MIL-STD-202, Method 204, Cond. B Vibration

(15g)Shock MIL-STD-202, Method 213, Cond. B

(75g, 6 ms, 1/2 sine)

#### **MATERIALS**

Plastic Housing jacks Nylon 6 / 6 in-line plugs PBT+15%GF PCB plugs Nylon 6 / 6

Secondary Locking Clip PBT w/ 15% Glass Fiber

Center Contact female Beryllium Copper male Brass

Body Brass Barrel Brass

Retainer Ring Beryllium Copper Ferrule Copper

Insulator TFE

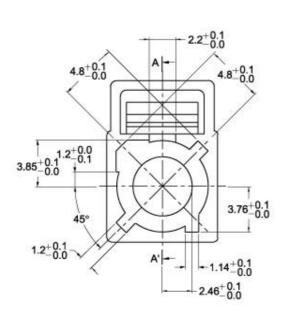
#### **PLATING**

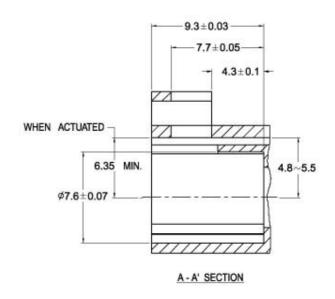
Center Contact Gold Body cable types Nickel

Nickel, Gold, Tin solder types Nickel Barrel

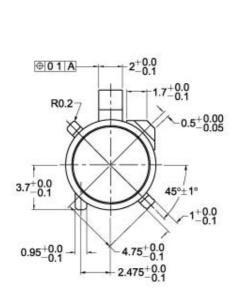
Ferrule Nickel

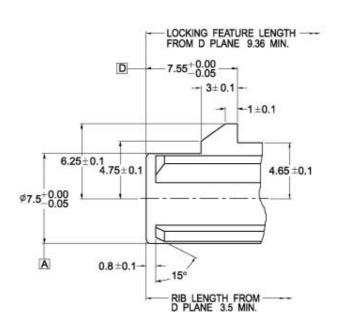
#### Female(J) FAKRA Interface Specifications



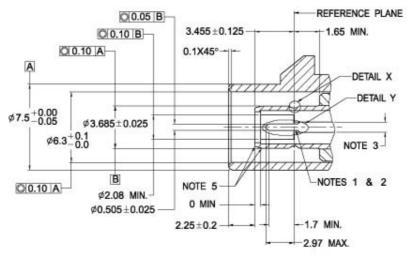


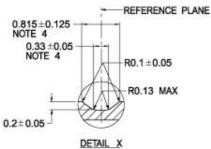
#### Male(P) FAKRA Interface Specifications

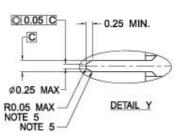




#### Male(P) FAKRA Detailed Interface Specifications







#### NOTES:

- 1. CONTACT TO BE 0.18 MAX BELOW INSULATOR SHOULDER
- 2. INSULATOR SHOULDER TO BE 0.18 MAX IN FRONT OF REF. PLANE 3. THE Ø OF THE CENTER CONDUCTOR PIN, AND OF THE UNIFORM TRANSMISSION LINE TO GIVE REQUIRED CHARACTERISTIC IMPEDANCE OF 50 OHM
- 4. GROOVE SYMMETRICAL TO REFERENCE PLANE
- 5. NO SHARP EDGES ALLOWED

#### Recommended Tooling (Daniels Manufacturing)

	Recommended Tooling (Damers Manufacturing)							
	R	G-174, RG-316 Cabl	es	RG-58				
	Center Pin	Ferrule(Single)	Ferrule(Dual)	Center Pin	Ferrule(Single)	Ferrule(Dual)		
Hand Crimp Tool	AFM8	HX4	HX4	AFM8	HX4	HX4		
Pneumatic Crimp Tool	WA22	HX23	HX23	WA22	HX23	HX23		
Die Set (Positioner)	K727	Y119 or Y1831	Y1831	K1470	Y188 or Y1832	Y1832		
Depth Setting	4 or 5*	-	-	6 or 7*	-	-		

- Please note: The dual ferrule die sets can be used on the single ferrule designs.

  \* Depth setting should be used at minimum setting which will yield wire minimum 5 lbs pull-off force.

  \* Depth setting requirements depend upon several factors including wire manufacturer + grade.



#### Single Male FAKRA for Cable Group 1

Global Part Number: FA1-NXSP-C01-1

ARFA Part Number: FK1121XX-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1



#### Single Male FAKRA for Cable Group 4

Global Part Number: FA1-NXSP-C04-1

ARFA Part Number: FK1121XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C1



#### Single Male FAKRA for Cable Group 1, Second Generation

Global Part Number: 2FA1-NXSP-C01-1

ARFA Part Number:

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1



#### Single Male FAKRA for Cable Group 4, Second Generation

Global Part Number: 2FA1-NXSP-C04-1

ARFA Part Number: Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C1



#### Single Male FAKRA with Bracket for Cable Group 1

Global Part Number: FA1-NXSP-C01-0

ARFA Part Number: FK1321XX-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1



#### Single Male FAKRA with Bracket for Cable Group 4

Global Part Number: FA1-NXSP-C04-0

ARFA Part Number: FK1321XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C1



#### Single Male Panel Front Mount FAKRA for Cable Group 1

Global Part Number: FA1-NXSP-C01-5

ARFA Part Number: FK1321XX-023-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C4



#### Single Male Panel Front Mount FAKRA for Cable Group 1

Global Part Number: FA1-NXSP-C01-6

ARFA Part Number: FK1321XX-026-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C4

Remark: With gasket



#### FAKRA Edgecard Male with two lockpins

Global Part Number: FA1-NXSP-PCB-0 ARFA Part Number: FK1251XX-3GT30G-50

Cable Sizes: N/A

Assembly Instructions: N/A



#### FAKRA Edgecard Male

Global Part Number: FA1-NXSP-PCB-1

ARFA Part Number: FK1251XX-001-3GT30G-50

Cable Sizes: N/A

Assembly Instructions: N/A



#### **FAKRA PCB Mount Male**

Global Part Number: FA1-NXSP-PCB-2

ARFA Part Number: FK1251XX-002-3GT30G-50

Cable Sizes: N/A

Assembly Instructions: N/A



#### FAKRA R/A PCB Mount Male with Bracket

Global Part Number: FC2-NKERP-PCB-S ARFA Part Number: FK1252 KEW-NT30G-50

Cable Sizes: N/A

Assembly Instructions: N/A

Remark: Two in One



#### FAKRA R/A PCB Mount Male, Extended Nose

Global Part Number: FA1-NXRP-PCB-X

ARFA Part Number: Cable Sizes: N/A

Assembly Instructions: N/A

Remark: Global part number with - 6 (gold), - 8 (tin), - 9 (nickel), - A(completely assembled)



#### **FAKRA R/A PCB Mount Male**

Global Part Number: PSE-LP-PC-8-XX

ARFA Part Number: 10058-XX

Cable Sizes: N/A

Assembly Instructions: N/A



#### **FAKRA R/A PCB Mount Male**

Global Part Number: FA1-NXRP-PCB-10
ARFA Part Number: FK1252XX-005-NT30G-50

Cable Sizes: N/A

Assembly Instructions: N/A



#### **FAKRA R/A SMT PCB Mount Male**

Global Part Number: FA1-NXRP-PCB-11
ARFA Part Number: FK1252XX-010-NT30G-50

Cable Sizes: N/A

Assembly Instructions: N/A



#### **FAKRA R/A PCB Mount Male**

Global Part Number: FA1-NXRP-PCB-M

ARFA Part Number: Cable Sizes: N/A

Assembly Instructions: N/A

Remark: Tape & Reel Packaging



#### FAKRA Straight SMT PCB Male, Die Cast body

Global Part Number: FA1-NXSP-PCB-X

ARFA Part Number: Cable Sizes: N/A

Assembly Instructions: N/A

Remark: Tape & Reel Packaging



#### **Dual Male FAKRA for Cable Group 4**

Global Part Number: FA2-NXSP-C04-9

ARFA Part Number: FKT1121XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C1



#### **Dual Male FAKRA for Cable Group 1**

Global Part Number: FA2-NXSP-C01-9

ARFA Part Number: FKT1121XX-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1



#### Dual Male FAKRA for Cable Group 0

Global Part Number: FA2-NXSP-C00-9

ARFA Part Number: FKT1121XX-009-NT30G-50

Cable Sizes: RG-58/RG-174 Combo type

Assembly Instructions: FAKRA C1



#### Dual Male FAKRA for Cable Group 4, Second Generation

Global Part Number: 2FA2-NXSP-C04-9

ARFA Part Number: Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C1



#### Dual Male FAKRA for Cable Group 1, Second Generation

Global Part Number: 2FA2-NXSP-C01-9

ARFA Part Number:

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1



#### Dual Male FAKRA for Cable Group 0, Second Generation

Global Part Number: 2FA2-NXSP-C00-9

ARFA Part Number:

Cable Sizes: RG-58/RG-174 Combo type

Assembly Instructions: FAKRA C1





#### Dual Male FAKRA with Bracket for Cable Group 1

Global Part Number: FC2-NEKSP-C01-X

ARFA Part Number: FKT1121EKW-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1

Remark: Two in One



#### Dual Male FAKRA with Bracket for Cable Group 10

Global Part Number: FA2-NXSP-C10-0

ARFA Part Number: FKT1321XX-002-NT30G-50

Cable Sizes: RG-178, 196 type Assembly Instructions: FAKRA C1



#### Dual Male FAKRA with Bracket for Cable Group 4

Global Part Number: FA2-NXSP-C04-0

ARFA Part Number: FKT1321XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C1



#### Dual Male FAKRA with Bracket for Cable Group 0

Global Part Number: FA2-NXSP-C00-0

ARFA Part Number: FKT1321XX-009-NT30G-50

Cable Sizes: RG-58/RG-174 Combo type

Assembly Instructions: FAKRA C1



#### Dual Male FAKRA with Bracket for Cable Group 0

Global Part Number: FC2-NCDSP-C00-0

ARFA Part Number: FKT1321CDW-009-NT30G-50

Cable Sizes: RG-58/RG-174 Combo type

Assembly Instructions: FAKRA C1

Remark: Two in One



#### Single R/A Female FAKRA for Cable Group 1

Global Part Number: FA1-NXRJ-C01-0

ARFA Part Number: FK6112XX-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C3



#### Single R/A Female FAKRA for Cable Group 4

Global Part Number: FA1-NXRJ-C04-0

ARFA Part Number: FK6112XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C3



#### Single R/A Female FAKRA for Cable Group 1

Global Part Number: 2FA1-NXRJ-C01-0

ARFA Part Number: FK6112XX-027-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C3



#### Single R/A Female FAKRA for Cable Group 4

Global Part Number: 2FA1-NXRJ-C04-0

ARFA Part Number: FK6112XX-028-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C3



#### 360° Rotating Single R/A Female FAKRA for Cable Group 1

Global Part Number: FA1-NXRJ-C01-3

ARFA Part Number: FK6112XX-037-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C3



#### 360° Rotating Single R/A Female FAKRA for Cable Group 4

Global Part Number: FA1-NXRJ-C04-3

ARFA Part Number: FK6112XX-038-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C3



#### Single Female FAKRA for Cable Group 1, Second Generation

Global Part Number: 2FA1-NXSJ-C01-0

ARFA Part Number: FK6121XX-012-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C1





#### Single Female FAKRA for Cable Group 4

Global Part Number: FA1-NXSJ-C04-0

ARFA Part Number: FK6121XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C2



#### Single Female FAKRA for Cable Group 1

Global Part Number: FA1-NXSJ-C01-0

ARFA Part Number: FK6121XX-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C2



#### Single Female FAKRA for Cable Group 9

Global Part Number: FA1-NXSJ-C09-0

ARFA Part Number: FK6121XX-003-NT30G-50

Cable Sizes: .057 OD cable type Assembly Instructions: FAKRA C2



#### Single Female FAKRA for Cable Group 10

Global Part Number: FA1-NXSJ-C10-0

ARFA Part Number: FK6121XX-002-NT30G-50 Cable Sizes: RG-178, 196, .071 OD cable type

Assembly Instructions: FAKRA C2



#### Single Female FAKRA with Clip Provision at 6 o'clock for Cable Group 4

Global Part Number: FA1-NXSJ-C04-6

ARFA Part Number: FK6121XX-010-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C2



#### Single Female FAKRA with Clip Provision at 6 o'clock for Cable Group 1

Global Part Number: FA1-NXSJ-C01-6

ARFA Part Number: FK6121XX-005-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C2



#### Dual Female FAKRA for Cable Group 4

Global Part Number: FA2-NXSJ-C04-0

ARFA Part Number: FKT6121XX-008-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C2



#### Dual Female FAKRA for Cable Group 1

Global Part Number: FA2-NXSJ-C01-0

ARFA Part Number: FKT6121XX-007-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C2



#### Dual Female FAKRA with Clip Provision at 6 o'clock for Cable Group 1

Global Part Number: FA2-NXSJ-C01-6

ARFA Part Number: FKT6121XX-005-NT30G-50

Cable Sizes: RG-174, 316 type Assembly Instructions: FAKRA C2



#### Dual Female FAKRA with Clip Provision at 6 o'clock for Cable Group 4

Global Part Number: FA2-NXSJ-C04-6

ARFA Part Number: FKT6121XX-010-NT30G-50

Cable Sizes: RG-58 type

Assembly Instructions: FAKRA C2



#### Dual Female FAKRA with Clip Provision at 6 o'clock for Cable Group 0

Global Part Number: FA2-NXSJ-C00-6

ARFA Part Number: FKT6121XX-011-NT30G-50

Cable Sizes: RG-58/RG-174 Combo type

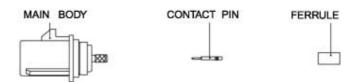
Assembly Instructions: FAKRA C2

	RG 58 Type, Stranded Solid Copper Center Conductor
roomes -	Material Identification Number: 021A1 Product Description:T58SCPN96T-VB
	RG 58 Type-Low Loss, Stranded Solid Copper Center Conductor
	Material Identification Number: 021A8 Product Description: T58SC85T-VB
	RG 58 Type, Stranded Solid Copper Clad Steel Center Conductor
	Material Identification Number: 021G4 Product Description: T58STTCPN96T-VB
	RG 174 Type, Stranded Solid Copper Center Conductor
	Material Identification Number: 025FO Product Description: T174STCSPN85T-VB
	RG 174 Type-Low Loss, Solid Copper Center Conductor
	Material Identification Number: 025F7 Product Description: T174PD93T-VB
	RG 62 Type-Low Loss, Solid Copper Center Conductor
	Material Identification Number: 021G1 Product Description: T62N94C-VB



#### Straight Male(P) FAKRA Cable Assembly Instructions (FAKRA C1)

#### STEP 1. All parts of the connector are shown.



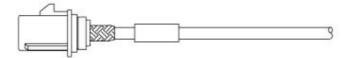
STEP 2. Strip the cable inner conductor, dielectric, braid and jacket as shown.



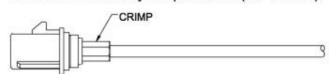
STEP 3. Insert the inner conductor into the CONTACT PIN.Crimp the center contact with the crimping tool. Slide the FERRULE onto the cable.



STEP 4. Insert the MAIN BODY into the braid and dielectric until it bottoms against the insulator.



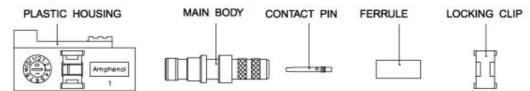
STEP 5. Slide the FERRULE over the braid and crimp. Verify pin height from end of SMB metal body to top of contact(.53-1.15mm).



Cable	Str	ripping Length(m	nm)	Center Contact	Ferrule
Group	A	В	С	Crimp Tool	Crimp Size
1	.118"(3 mm)	.110"(2.8 mm)	.205"(5.2 mm)	AFM8	Hex .128"(3.25 mm)
4	.118"(3 mm)	.067"(1.7 mm)	.327"(8.3 mm)	AFM8	Hex .213"(5.41 mm)
10	.118"(3 mm)	.102"(2.6 mm)	.205"(5.2 mm)	AFM8	Hex .128"(3.25 mm)

#### Straight Female(J) FAKRA Cable Assembly Instructions (FAKRA C2)

STEP 1. All parts of the connector are shown.



STEP 2. Strip the cable inner conductor, dielectric, braid and jacket as shown.



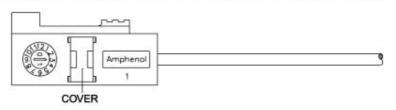
STEP 3. Insert the inner conductor into the CONTACT PIN.Crimp the center contact with the crimping tool. Slide the FERRULE onto the cable.



STEP 4. Insert the MAIN BODY into the braid and dielectric until it bottoms against the insulator. Slide the FERRULE over the braid and crimp.



STEP 5. Insert MAIN BODY into the PLASTIC HOUSING, and press the LOCKING CLIP into it. Verify pin height from end of SMB metal body to top of contact(1.18-1.81mm).



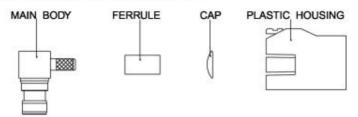
Cable	Str	ipping Length(m	nm)	Center Contact	Ferrule
Group	A	В	С	Crimp Tool	Crimp Size
1	.118"(3 mm)	.110"(2.8 mm)	.205"(5.2 mm)	AFM8	Hex .128"(3.25 mm)
4	.118"(3 mm)	.067"(1.7 mm)	.327"(8.3 mm)	AFM8	Hex .213"(5.41 mm)
9	.095"(2.4 mm)	.228"(5.8 mm)	.224"(5.7 mm)	AFM8	Hex .128"(3.25 mm)
10	.118"(3 mm)	.102"(2.6 mm)	.205"(5.2 mm)	AFM8	Hex .128"(3.25 mm

Please refer to FAKRA catalog for recommended tools.



#### Right Angle Female(J) FAKRA Cable Assembly Instructions (FAKRA C3)

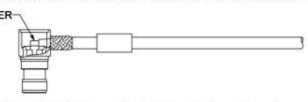
STEP 1. All parts of the connector are shown.



STEP 2. Strip the cable inner conductor, dielectric, braid and jacket as shown.



STEP 3. Slide the FERRULE onto the cable. Solder the inner conductor to the contact pin of the MAIN BODY. Insert the MAIN BODY into the braid and dielectric.



STEP 4. Slide the FERRULE over the braid and crimp. Press the cap into the MAIN BODY.



STEP 5. Insert the MAIN BODY into the PLASTIC HOUSING.



Cable	Str	ipping Length(m	nm)	Center Contact	Ferrule
Group	A	В	С	Termination	Crimp Size
1	.106"(2.7 mm)	.028"(0.7 mm)	.217"(5.5 mm)	Solder	Hex .128"(3.25 mm)
4	.118"(3 mm)	.130"(3.3 mm)	.327"(8.3 mm)	Solder	Hex .213"(5.41 mm)
9	.106"(2.7 mm)	.028"(0.7 mm)	.217"(5.5 mm)	Solder	Hex .128"(3.25 mm)

#### Straight Male(P) FAKRA Cable Assembly Instructions (FAKRA C4)

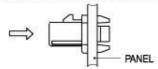
STEP 1. All parts of the connector are shown.



STEP 2. Strip the cable as shown.



STEP 3. Press the LOCK COVER into the PANEL.



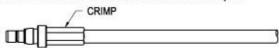
STEP 4. Insert inner conductor into the CONTACT PIN and crimp it.



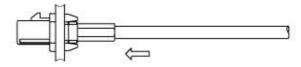
STEP 5. Slide the FERRULE onto the cable, and insert the MAIN BODY into the braid and dielectric.



STEP 6. Slide the FERRULE over the braid and crimp it.



STEP 7. Insert the MAIN BODY into the LOCK COVER until a "Click" is obtained.



Cable	Str	ipping Length(m	nm)	Center Contact	Ferrule
Group	A	В	С	Crimp Tool	Crimp Size
1	.118"(3 mm)	.110"(2.8 mm)	.205"(5.2 mm)	AFM8	Hex .128"(3.25 mm)
4	.118"(3 mm)	.067"(1.7 mm)	.327"(8.3 mm)	AFM8	Hex .213"(5.41 mm)
10	.118"(3 mm)	.110"(2.8 mm)	.205"(5.2 mm)	AFM8	Hex .128"(3.25 mm)

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