



FAKRA, MINI FAKRA AND MATE-AX CONNECTORS AND CABLE ASSEMBLIES

TE Connectivity's (TE) FAKRA, MINI FAKRA and MATE-AX connectors and cable assemblies provide a design solution that can be used to replace SMA cable assemblies in new designs. Featuring TE's FAKRA and MATE-AX connection systems, these cable assemblies can be easy-to-use in tight spaces and enable reliable assembly for IoT and V2X applications.

The FAKRA connector system portfolio features an extensive range of cable assemblies, terminals, and housings for use in the many various automotive RF based applications. This includes 14 key codes with sealed, unsealed, 180° and 90° orientation variants. FAKRA connector products have been designed specifically for automated manufacturing and benefit from TE's global manufacturing footprint.

The MATE-AX miniaturized coaxial connector system provides advanced automotive data transmission performance, supporting, as standard, up to 9 GHz or up to 15GHz with optimized designs. Offering a higher packaging density, MATE-AX terminals can support up to 75% reduction in PCB footprint and by using existing wire types enabling flexible integration into existing coaxial architecture. The MATE-AX connector system features an extensive portfolio, offering a wide range of connector types and sizes to support RF-based applications.

APPLICATIONS

- IoT
- Antennas
- Telematics
- IP Cameras
- V2X (Vehicle-to-everything)

KEY BENEFITS

- Ease of installation vs. screw-on SMA cable assemblies
- Can be used to replace SMA cable assemblies in new designs
- Works well in high-vibration applications
- Waterproof design works well in harsh environments

PRODUCT FEATURES

- Provides an easier, more sturdy snap-in connection than screw-on SMA connectors
- Uses components that are molded and stamped vs. machined parts which helps reduce cost
- Terminal design optimized for automated manufacturing
- Compatible for all existing brands

FAKRA, MINI FAKRA AND MATE-AX CONNECTORS AND CABLE ASSEMBLIES

FAKRA CONNECTORS, ADAPTORS STANDARD PRODUCT OFFERING

Items	Part Number	Part Description	Product Family	Type	Frequency (GHz)	Positions	Orientation	Codes	Color
1	2474494-1	FAKRA M W HOUSING, CODE A,RA,PCB,6G	FAKRA	Male	6	1	R/A	A	Jet Black
2	2474494-2	FAKRA M W HOUSING, CODE B,RA,PCB,6G	FAKRA	Male	6	1	R/A	B	Cream
3	2474494-3	FAKRA M W HOUSING, CODE C,RA,PCB,6G	FAKRA	Male	6	1	R/A	C	Signal Blue
4	2474494-4	FAKRA M W HOUSING, CODE D,RA,PCB,6G	FAKRA	Male	6	1	R/A	D	Claret Violet
5	1-2474494-5	FAKRA M W HOUSING, CODE Z,RA,PCB,6G	FAKRA	Male	6	1	R/A	Z	Water Blue
6	2485540-1	FAKRA M W HOUSING, CODE A,RA,PCB, STD,6G	FAKRA	Male	6	1	R/A	A	Jet Black
7	2485540-2	FAKRA M W HOUSING, CODE B,RA,PCB, STD,6G	FAKRA	Male	6	1	R/A	B	Cream
8	2485540-3	FAKRA M W HOUSING, CODE C,RA,PCB, STD,6G	FAKRA	Male	6	1	R/A	C	Signal Blue
9	2485540-4	FAKRA M W HOUSING, CODE D,RA,PCB, STD,6G	FAKRA	Male	6	1	R/A	D	Claret Violet
10	1-2485540-5	FAKRA M W HOUSING, CODE Z,RA,PCB, STD,6G	FAKRA	Male	6	1	R/A	Z	Water Blue
11	2474495-1	FAKRA M W HOUSING, CODE A,STR,PCB,6G	FAKRA	Male	6	1	Vertical	A	Jet Black
12	2474495-2	FAKRA M W HOUSING, CODE B,STR,PCB,6G	FAKRA	Male	6	1	Vertical	B	Cream
13	2474495-3	FAKRA M W HOUSING, CODE C,STR,PCB,6G	FAKRA	Male	6	1	Vertical	C	Signal Blue
14	2474495-4	FAKRA M W HOUSING, CODE D,STR,PCB,6G	FAKRA	Male	6	1	Vertical	D	Claret Violet
15	1-2474495-5	FAKRA M W HOUSING, CODE Z,STR,PCB,6G	FAKRA	Male	6	1	Vertical	Z	Water Blue
16	2474532-1	ADAPTER,SMA F TO FAKRA M,NO HOUSING,6GHZ	FAKRA	Adaptor F/M	6	1	Straight	N/A	N/A
17	2474533-1	ADAPTER,SMA F TO FAKRA F,NO HOUSING,6GHZ	FAKRA	Adaptor F/F	6	1	Straight	N/A	N/A
18	2474534-1	ADAPTER,SMA F TO FAKRA M W H,STR,6GHZ	FAKRA	Adaptor F/M	6	1	Straight	N/A	N/A
19	2474535-1	ADAPTER,SMA F TO FAKRA F W H,STR,6GHZ	FAKRA	Adaptor F/F	6	1	Straight	N/A	N/A

FAKRA, MINI FAKRA AND MATE-AX CONNECTORS AND CABLE ASSEMBLIES

FAKRA CABLE ASSEMBLIES STANDARD PRODUCT OFFERING

Items	Part Number	Part Description	Frequency (GHz)	Coaxial Cable Type	Connector 1#	Connector 1# Code	Connector 2#	Connector 2# Code	Cable Length (mm)
1	2081376-1	CA, FAKRA F TO F, RG174LL, NO SLIP, 300MM	6	RG174LL	Female	Z	Female	Z	300
2	2081376-3	CA, FAKRA F TO F, RG174LL, NO SLIP, 1000MM	6	RG174LL	Female	Z	Female	Z	1,000
3	2081377-1	CA, FAKRA F TO M, RG174LL, NO SLIP, 300MM	6	RG174LL	Female	Z	Male	Z	300
4	2081377-3	CA, FAKRA F TO M, RG174LL, NO SLIP, 1000MM	6	RG174LL	Female	Z	Male	Z	1,000
5	2081377-6	CA, FAKRA F TO M, RG174LL, NO SLIP, 5000MM	6	RG174LL	Female	Z	Male	Z	5,000
6	2081384-4	CA, FAKRA F TO F, RTK031, W SLIP, 2000MM	6	RTK031	Female	Z	Female	Z	2,000
7	2081384-6	CA, FAKRA F TO F, RTK031, W SLIP, 5000MM	6	RTK031	Female	Z	Female	Z	5,000
8	2081385-2	CA, FAKRA F TO M, RTK031, W SLIP, 600MM	6	RTK031	Female	Z	Male	Z	600
9	2081385-5	CA, FAKRA F TO M, RTK031, W SLIP, 3000MM	6	RTK031	Female	Z	Male	Z	3,000
10	2081390-2	CA, FAKRA F TO F, DACAR462, W SLIP, WP, 600MM	6	DACAR462	Female Water Proof	Z	Female Water Proof	Z	600
11	2081390-5	CA, FAKRA F TO F, DACAR462, W SLIP, WP, 3M	6	DACAR462	Female Water Proof	Z	Female Water Proof	Z	3,000
12	2081345-2	CA, FAKRA F TO SMA M, RG58LL, L600MM	6	RG58LL	Female	Z	SMA Male	N/A	600
13	2081345-4	CA, FAKRA F TO SMA M, RG58LL, L2000MM	6	RG58LL	Female	Z	SMA Male	N/A	2,000

FAKRA, MINI FAKRA AND MATE-AX CONNECTORS AND CABLE ASSEMBLIES

MINI FAKRA CONNECTORS STANDARD PRODUCT OFFERING

Items	Part Number	Part Description	Product Family	Type	Frequency (GHz)	Positions	Oritation	Codes	Color
1	2477736-7	Mini FAKRA M,1P,CODE Z,RA,PCB,9G	Mini FAKRA	Male	9	1	R/A	Z	Water Blue
2	2477757-7	Mini FAKRA M,2P,CODE Z,RA,PCB,9G	Mini FAKRA	Male	9	2	R/A	Z	Water Blue
3	2474520-1	MINI-FAKRA W HOUSING,CODE A,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	A	Black
4	2474520-2	MINI-FAKRA W HOUSING,CODE B,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	B	White
5	2474520-3	MINI-FAKRA W HOUSING,CODE C,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	C	Blue
6	2474520-4	MINI-FAKRA W HOUSING,CODE D,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	D	Bordeaux Violet
7	2474520-5	MINI-FAKRA W HOUSING,CODE E,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	E	Green
8	2474520-6	MINI-FAKRA W HOUSING,CODE F,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	F	Brown
9	2474520-7	MINI-FAKRA W HOUSING,CODE Z,RA,PCB,9G	Mini FAKRA	Male	9	4	R/A	Z	Water Blue
10	2474521-1	MINI FAKRA F,4P,CODE A,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	A	Black
11	2474521-2	MINI FAKRA F,4P,CODE B,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	B	White
12	2474521-3	MINI FAKRA F,4P,CODE C,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	C	Blue
13	2474521-4	MINI FAKRA F,4P,CODE D,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	D	Claret
14	2474521-5	MINI FAKRA F,4P,CODE E,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	E	Green
15	2474521-6	MINI FAKRA F,4P,CODE F,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	F	Brown
16	2474521-7	MINI FAKRA F,4P,CODE G,STR,RG174,15G	Mini FAKRA	Female	15	4	Straight	Z	Water Blue

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MINI FAKRA AND MATE-AX CABLE ASSEMBLIES STANDARD PRODUCT OFFERING

Items	Part Number	Part Description	Product Family	Frequency (GHz)	Coaxial Cable Type	Connector 1#	Connector 1# Code	Connector 2#	Connector 2# Code	Cable Length (mm)
1	2081392-2	CA, MATE-AX F TO F, STR, RTK031, 600MM	MATE-AX	6	RTK031	Female	Z	Female	Z	600
2	2081392-4	CA, MATE-AX F TO F, STR, RTK031, 2000MM	MATE-AX	6	RTK031	Female	Z	Female	Z	2,000
3	2081393-1	CA, MATE-AX F TO FAKRA F, RTK031, 300MM	MATE-AX/ FAKRA	6	RTK031	MATE-AX Female	Z	FAKRA Female	Z	300
4	2081393-3	CA, MATE-AX F TO FAKRA F, RTK031, 1000MM	MATE-AX/ FAKRA	6	RTK031	MATE-AX Female	Z	FAKRA Female	Z	1,000
5	2081346-1	CA, MATE-AX F TO SMA M, RTK031, 300MM	MATE-AX/ SMA	6	RTK031	MATE-AX Female	Z	SMA Male	Z	300
6	2081346-3	CA, MATE-AX F TO SMA M, RTK031, 1000MM	MATE-AX/ SMA	6	RTK031	MATE-AX Female	Z	SMA Male	Z	1,000
7	2081346-5	CA, MATE-AX F TO SMA M, RTK031, 3000MM	MATE-AX/ SMA	6	RTK031	MATE-AX Female	Z	SMA Male	Z	3,000
8	2484052-2	MINI FAKRA 4P,F TO F, CODE A, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	A	Female	A	305
9	2484052-1	MINI FAKRA 4P,F TO F, CODE A, 15GHZ, 600MM	MINI FAKRA	15	RG174	Female	A	Female	A	600
10	2484060-1	MINI FAKRA 4P,F TO F, CODE B, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	B	Female	B	305
11	2484061-1	MINI FAKRA 4P,F TO F, CODE C, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	C	Female	C	305
12	2484062-1	MINI FAKRA 4P,F TO F, CODE D, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	D	Female	D	305
13	2484063-1	MINI FAKRA 4P,F TO F, CODE E, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	E	Female	E	305
14	2484064-1	MINI FAKRA 4P,F TO F, CODE F, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	F	Female	F	305
15	2484065-1	MINI FAKRA 4P,F TO F, CODE Z, 15GHZ, 305MM	MINI FAKRA	15	RG174	Female	Z	Female	Z	305

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Published 04-25