

# FCI Automotive Connectors



This product is RoHS compliant.



## APEX 150 (1.5MM) CONNECTORS

### Features:

- Circumferential interface seal
- Wire accommodation range: 22AWG (.35mm<sup>2</sup>)
- Mat seal design

- Terminal Position Assurance (TPA) device to detect partially installed terminals
- USCAR 'on engine' performance standard suitable for harsh environments

- Sealing Protection: IP68
- Temperature range: -40°C to +125°C
- Current Rating: 25A
- 3.5mm pitch

\*2.8mm Cavity Plugs to be used with 14 and 24 contacts Hybrid and Ergomate Connectors

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Contacts	Description	Color	Price Each			
						1	25	50	100
<b>Male Housing</b>									
649-54241000	54241000	A	10	Sealed, Index A	Black	3.88	3.66	3.45	3.25
649-54241001	54241001	A	10	Sealed, Index B	Gray	3.77	3.55	3.34	3.15
649-54241600	54241600	A	16	Sealed, Index A	Black	3.77	3.55	3.34	3.15
649-54241601	54241601	A	16	Sealed, Index B	Gray	3.77	3.55	3.34	3.15
649-54251400	54251400	B	14	Hybrid, Sealed, Index A	Black	5.32	5.01	4.72	4.45
649-54251401	54251401	B	14	Hybrid, Sealed, Index B	Gray	3.65	3.44	3.24	3.05
649-F254000	F254000	B	24	Hybrid, ErgoMate, Sealed, Index A	Black	7.58	7.15	6.74	6.35
<b>Female Housing</b>									
649-54241030	54241030	C	10	Sealed, Index A with CPA	Black	4.48	4.22	3.98	3.75
649-54241031	54241031	C	10	Sealed, Index B with CPA	Gray	4.61	4.34	4.09	3.85
649-54241630	54241630	C	16	Sealed, Index A with CPA	Black	4.72	4.45	4.19	3.95
649-54241631	54241631	C	16	Sealed, Index B with CPA	Gray	4.96	4.67	4.40	4.15
649-55251400	55251400	D	14	Hybrid, Sealed, Index A with CPA	Black	3.88	3.66	3.45	3.25
649-55251401	55251401	D	14	Hybrid, Sealed, Index B with CPA	Gray	4.12	3.88	3.66	3.45
649-F934000	F934000	D	24	Hybrid, ErgoMate, Sealed, Index A with CPA	Black	10.80	10.18	9.60	9.05
<b>Seal Plugs</b>									
649-54241629	54241629	---	---	1.5mm Cavity Seal Plug	---	1.27	1.19	1.12	1.05
* 649-54240002	54240002	---	---	2.8mm Seal Plug, Female Side	---	1.27	1.19	1.12	1.05
* 649-54240003	54240003	---	---	2.8mm Seal Plug, Male Side	---	1.27	1.19	1.12	1.05

### Terminals

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Gender	Terminal Size	Plating	Price Each			
						1	25	50	100
649-54001625	54001625	E	Female	1.5mm	Tin	.91	.85	.80	.75
649-54001627-L	54001627-L	E	Female	1.5mm	Gold	1.63	1.53	1.44	1.35
649-54001626	54001626	F	Male	1.5mm	Tin	.91	.85	.80	.75
649-54001628	54001628	F	Male	1.5mm	Gold	1.38	1.30	1.22	1.15

### Tool

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Description	Price Each	
				1	5
649-54241678	54241678	---	Terminal Extraction Tool	9.15	8.63

## APEX 2.8MM CONNECTORS

### Features:

- Sealed: 12-20 wire gauge
- Fully assembled, robust design
- Circumferential interface seal
- Heavy Duty connectors for demanding environments
- Most compact 2.8mm system in the industry

- Terminal Position Assurance (TPA) device to detect partially installed terminals
- Mat seal design
- Connector position assurance available
- Sealing Protection: IP68

- Temperature range: 2 and 3 way: -40°C to +150°C
- 4,6,10 and 14 way: -40°C to +125°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	No. of Contacts	Description	Color	Price Each			
						1	25	50	100
<b>Male Housings</b>									
649-54200210	54200210	G	2	Sealed, Index A	Black	2.70	2.54	2.39	2.25
649-54200211	54200211	G	2	Sealed, Index B	Lt Gray	2.70	2.54	2.39	2.25
649-54200312	54200312	G	3	Sealed, Index A	Black	3.29	3.10	2.92	2.75
649-54200313	54200313	G	3	Sealed, Index B	Lt Gray	3.29	3.10	2.92	2.75
649-54200413	54200413	G	4	Sealed, Index A	Black	3.29	3.10	2.92	2.75
649-54200414	54200414	G	4	Sealed, Index B	Lt Gray	3.52	3.32	3.13	2.95
649-54200612	54200612	G	6	Sealed, Index A	Black	3.65	3.44	3.24	3.05
649-54200613	54200613	G	6	Sealed, Index B	Lt Gray	3.65	3.44	3.24	3.05
649-54201016	54201016	G	10	Sealed, Index A	Black	3.88	3.66	3.45	3.25
649-54201017	54201017	G	10	Sealed, Index B	Lt Gray	3.88	3.66	3.45	3.25
649-54201415	54201415	G	14	Sealed, Index A	Black	4.48	4.22	3.98	3.75
649-54201416	54201416	G	14	Sealed, Index B	Lt Gray	4.48	4.22	3.98	3.75
<b>Female Housings</b>									
649-54200206	54200206	H	2	Sealed, with CPA, Index A	Black	3.16	2.98	2.81	2.65
649-54200207	54200207	H	2	Sealed, with CPA, Index B	Lt Gray	3.16	2.98	2.81	2.65
649-54200308	54200308	H	3	Sealed, with CPA, Index A	Black	3.52	3.32	3.13	2.95
649-54200309	54200309	H	3	Sealed, with CPA, Index B	Lt Gray	3.52	3.32	3.13	2.95
649-54200409	54200409	H	4	Sealed, with CPA, Index A	Black	3.65	3.44	3.24	3.05
649-54200410	54200410	H	4	Sealed, with CPA, Index B	Lt Gray	3.65	3.44	3.24	3.05
649-54200608	54200608	H	6	Sealed, with CPA, Index A	Black	3.88	3.66	3.45	3.25
649-54200609	54200609	H	6	Sealed, with CPA, Index B	Lt Gray	3.88	3.66	3.45	3.25
649-54201009	54201009	H	10	Sealed, with CPA, Index A	Black	4.36	4.11	3.87	3.65
649-54201010	54201010	H	10	Sealed, with CPA, Index B	Lt Gray	4.36	4.11	3.87	3.65
649-54201411	54201411	H	14	Sealed, with CPA, Index A	Black	5.08	4.79	4.51	4.25
649-54201412	54201412	H	14	Sealed, with CPA, Index B	Lt Gray	5.20	4.90	4.62	4.35

### Accessories

649-5420005	5420005	---	---	2.8mm Cavity Plug	---	.79	.74	.69	.65
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### Terminals

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Gender	Terminal Size	Plating	Price Each			
						1	25	50	100
649-54001800	54001800	E	Female	2.8mm	Tin	.65	.60	.55	.45
649-54001400	54001400	E	Female	2.8mm	Tin	.91	.85	.80	.75
649-54001803	54001803	E	Female	2.8mm	Gold	1.50	1.41	1.33	1.25
649-54001801	54001801	F	Male	2.8mm	Tin	.91	.85	.80	.75
649-54001401	54001401	F	Male	2.8mm	Tin	.91	.85	.80	.75
649-F875200	F875200	F	Male	2.8mm	Gold	2.93	2.76	2.60	2.45

### Tools

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	FCI Part No.	Fig.	Description	Price Each	
				1	5
649-5400EXT	5400EXT	---	Terminal Extraction Tool	3.63	3.42
649-APEX2.8MM18/20	APEX2.8mm18/20	---	Hand Crimp Tool, 18-20 AWG	295.00	285.00
649-APEX2.8MM14/16	APEX2.8mm14/16	---	Hand Crimp Tool, 14-16 AWG	295.00	285.00
649-APEX2.8MM10/12	APEX2.8mm10/12	---	Hand Crimp Tool, 10-12 AWG	295.00	285.00

