OMRON FPC and PCB Connectors

OMRON ELECTRONIC COMPONENTS

RoHS Compliant. This product is RoHS compliant.

OMRON XN2 SERIES: EASY-WIRE CONNECTORS FOR INDUSTRIAL COMPONENTS

Features:
- Easy-wire Connectors
- with E-con specifications (E-con specifications are currently being promoted for standardization by manufacturers of FA components and connectors)
- Ideal for connecting sensors
- Uses industry-proven spring clamps for wiring
- No special tools required
- Easy to rewire and repair
- Each connector accepts any wire size from AWG28 (0.08 mm^2) to AWG20 (0.5); External sheath diameter: 1.5 mm max

Specifications:
- Rated Current: 3A/pole (using 0.5mm^2 wire)
  2A/pole (using 0.3mm^2 wire)
  1A/pole (using 0.2mm^2 wire)
  0.5A/pole (using 0.1mm^2 wire)
- Insertion Tolerance: 50 cycles
- External sheath diameter: 1.5 mm max

Contacts:
- Phosphor bronze/Underplating: Nickel (1.5 to 3.0 µm)
- Contacts: Gold (0.2 µm min.)
- Terminals: Tin plating (1.0 µm min.)

NEW PRODUCT

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	No. of Contacts	Description	Dimensions (mm) A	B	C	D	E	Price Each 1	25	50	100
Cable Plug Connector													
653-XN2A-1370	XN2A-1370	A	3	AWG28 - AWG20	4.0	7.2	13.8	-	-	3.72	3.45	3.09	2.93
653-XN2A-1470	XN2A-1470	A	4	AWG28 - AWG20	6.0	9.2	15.8	-	-	3.72	3.45	3.09	2.93
Cable Socket Connector													
653-XN2B-1470	XN2B-1470	B	4	AWG28 - AWG20	-	-	-	-	-	3.72	3.45	3.09	2.93
Single-Socket PCB Socket Connector													
653-XN2D-1471	XN2D-1471	C	4	AWG28 - AWG20	8.9	6.8	6.0	10.0	15.8	3.72	3.45	3.09	2.93
Four-Socket PCB Socket Connector													
653-XN2D-4431	XN2D-4431	D	4	AWG28 - AWG20	-	-	-	-	-	4.01	3.57	3.46	3.29

OMRON XF2L SERIES: SMT ZIF 0.50MM PITCH SLIDE-LOCK FPC CONNECTORS

Features:
- Small footprint reduces space on board
- Top and bottom contact styles have identical dimensions and utilize the same PCB layout for efficiency.
- Color-coded slide identifies top and bottom contact versions to prevent mix-ups during production.

Specifications:
- Rated current: 0.5A
- Rated voltage: 50 VDC
- Insertion tolerance: 20 times
- Contact material: nickel substrate, gold plating

Applications:
- Personal computers
- Mobile phones
- Digital cameras
- LCDs

For quantities of 6000 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	No. of Cont.	Contact Location	Dimensions: mm A	B	C	D	Price Each 1	25	50	100	Reel Qty.	Reel Qty. Price Each
653-XF2L-0425-1A	XF2L-0425-1A	E	4	Top	1.5	5.9	6.9	2.6	.57	.52	.46	.39	3000	.289
653-XF2L-0535-1A	XF2L-0535-1A	E	5	Bottom	2.0	6.4	7.4	3.1	.60	.54	.48	.41	3000	.30
653-XF2L-0625-1A	XF2L-0625-1A	E	6	Top	2.5	6.9	7.9	3.6	.62	.55	.49	.43	3000	.317
653-XF2L-0635-1A	XF2L-0635-1A	E	6	Bottom	2.5	6.9	7.9	3.6	.58	.51	.46	.40	3000	.295
653-XF2L-0825-1A	XF2L-0825-1A	E	8	Top	3.6	7.9	8.9	4.6	.68	.60	.54	.47	3000	.347
653-XF2L-1025-1A	XF2L-1025-1A	E	10	Top	4.5	8.9	9.9	5.6	.74	.65	.58	.51	3000	.378
653-XF2L-1225-1A	XF2L-1225-1A	E	12	Top	5.5	9.9	10.9	6.6	.80	.74	.63	.58	3000	.42
653-XF2L-1235-1A	XF2L-1235-1A	E	12	Bottom	5.5	9.9	10.9	6.6	1.09	.89	.83	.79	3000	.373
653-XF2L-1325-1A	XF2L-1325-1A	E	13	Top	6.0	10.4	11.4	7.1	.78	.69	.62	.52	3000	.38
653-XF2L-1825-1A	XF2L-1825-1A	E	18	Top	8.5	12.9	13.9	9.6	.89	.80	.71	.60	3000	.45
653-XF2L-1835-1A	XF2L-1835-1A	E	18	Bottom	8.5	12.9	13.9	9.6	.99	.90	.80	.68	3000	.50
653-XF2L-2035-1A	XF2L-2035-1A	E	20	Bottom	9.5	13.9	14.9	10.6	.97	.87	.77	.65	3000	.48
653-XF2L-3025-1A	XF2L-3025-1A	E	30	Top	14.5	18.9	19.9	15.6	1.25	1.12	.99	.84	3000	.62
653-XF2L-3035-1A	XF2L-3035-1A	E	30	Bottom	14.5	18.9	19.9	15.6	1.21	1.09	.96	.82	3000	.62

OMRON XF2M SERIES: SMT 0.50MM PITCH ROTARY BACKLOCK FPC CONNECTORS

Features:
- Double-sided (upper and lower) contact structure enables component reductions
- Short body depth of 5.9 mm with slider closed
- Reflow solderable, supplied on tape and reel

Specifications:
- Rated current: 0.5A
- Rated voltage: 50 VDC
- Insertion tolerance: 20 times
- Contact material: nickel substrate, gold plating

Applications:
- Personal computers
- Mobile phones
- PDAs
- Digital cameras

For quantities of 3000 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	No. of Contacts	Dimensions: mm A	B	C	D	E	Price Each 1	25	50	100	Reel Qty.	Reel Qty. Price Each
653-XF2M-1015-1A	XF2M-1015-1A	F	10	4.5	5.6	8.5	9.1	7.1	1.06	.94	.84	.71	1500	.531
653-XF2M-1215-1A	XF2M-1215-1A	F	12	5.5	6.6	9.5	10.1	8.1	1.16	1.04	.92	.79	1500	.581
653-XF2M-1415-1A	XF2M-1415-1A	F	14	6.5	7.6	10.5	11.1	9.1	1.22	1.09	.97	.83	1500	.61
653-XF2M-1815-1A	XF2M-1815-1A	F	18	8.5	9.6	12.5	13.1	11.1	1.30	1.17	1.04	.88	1500	.647
653-XF2M-2015-1A	XF2M-2015-1A	F	20	9.5	10.6	13.5	14.1	12.1	1.36	1.21	1.08	.92	1500	.67
653-XF2M-2215-1A	XF2M-2215-1A	F	22	10.5	11.6	14.5	15.1	13.1	1.41	1.26	1.12	1.01	1500	.705
653-XF2M-2415-1A	XF2M-2415-1A	F	24	11.5	12.6	15.5	16.1	14.1	1.47	1.32	1.17	.99	1500	.734
653-XF2M-2615-1A	XF2M-2615-1A	F	26	12.5	13.6	16.5	17.1	15.1	1.53	1.38	1.22	1.04	1500	.767
653-XF2M-3015-1A	XF2M-3015-1A	F	30	14.5	15.6	18.5	19.1	17.1	1.64	1.47	1.31	1.28	1500	.821
653-XF2M-3215-1A	XF2M-3215-1A	F	32	15.5	16.6	19.5	20.1	18.1	1.77	1.59	1.41	1.20	1500	.883
653-XF2M-3315-1A	XF2M-3315-1A	F	33	16.0	17.1	20.0	20.6	18.6	1.81	1.62	1.44	1.22	1500	.975
653-XF2M-3415-1A	XF2M-3415-1A	F	34	16.5	17.6	20.5	21.1	19.1	1.84	1.65	1.47	1.25	1500	.921
653-XF2M-3515-1A	XF2M-3515-1A	F	35	17.0	18.1	21.0	21.6	19.6	2.03	1.82	1.62	1.38	1500	1.01
653-XF2M-3615-1A	XF2M-3615-1A	F	36	17.5	18.6	21.5	22.1	20.1	1.87	1.72	1.53	1.30	1500	.96
653-XF2M-4015-1A	XF2M-4015-1A	F	40	19.5	20.6	23.5	24.1	22.1	2.08	1.86	1.66	1.41	1500	1.03
653-XF2M-4515-1A	XF2M-4515-1A	F	45	22.0	23.1	26.0	26.6	24.6	2.29	2.06	1.83	1.55	1500	1.14
653-XF2M-5015-1A	XF2M-5015-1A	F	50	24.5	25.6	28.5	29.1	27.1	2.12	2.01	1.92	1.67	1500	1.22

OMRON XF2R SERIES: 0.50MM PITCH LOW-PROFILE ROTARY BACKLOCK FPC CONNECTORS

Features:
- FPC insertion sensation greatly improved with 1.1mm FPC guide section
- Double-sided (upper and lower) contact structure enables component reductions
- Effective interface length for terminals increased to 1.4mm to ensure stability in applications with a lot of movement

Specifications:
- Rated current / voltage: 0.3A AC/DC / 50V AC/DC
- Insertion tolerance: 20 times
- Contact material: nickel substrate, gold plating

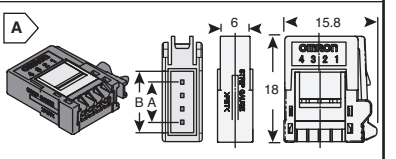
Applications:
- Personal computers
- Mobile phones
- Digital cameras

For quantities of 6000 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	No. of Contacts	Dimensions: mm A	B	C	D	E	Price Each 1	25	50	100	Reel Qty.	Reel Qty. Price Each
653-XF2R-4015-4A	XF2R-4015-4A	G	40	22.0	19.5	20.6	21.55	22.35	2.93	2.80	2.60	2.34	3000	1.69
653-XF2R-0615-4A	XF2R-0615-4A	G	6	5.0	2.5	3.6	4.55	5.35	1.30	1.15	1.03	.95	3000	.73
653-XF2R-0915-4A	XF2R-0915-4A	G	9	6.5	4.0	5.1	6.05	6.85	1.42	1.35	1.25	1.13	3000	.78
653-XF2R-1815-4A	XF2R-1815-4A	G	18	11.0	8.5	9.6	10.55	11.35	1.85	1.77	1.64	1.40	3000	1.03
653-XF2R-2415-4A	XF2R-2415-4A	G	24	14.0	11.5	12.6	13.55	14.35	2.15	2.05	1.96	1.86	3000	1.24
653-XF2R-3415-4A	XF2R-3415-4A	G	34	19.0	16.5	17.6	18.55	-	2.63	2.52	2.40	2.28	3000	1.52

DIMENSIONS: mm

A



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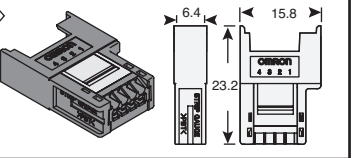

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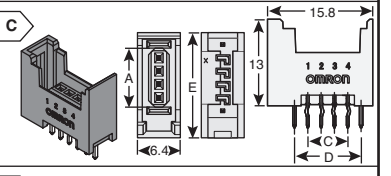

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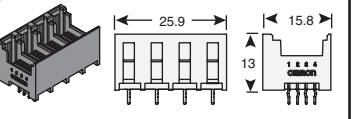

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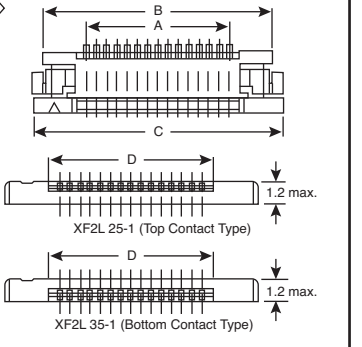

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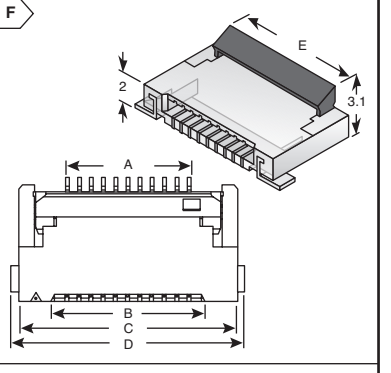

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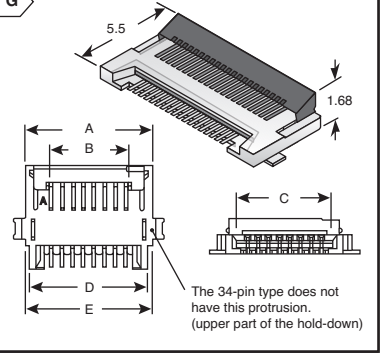

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