

DIFFERENTIAL CONNECTOR

FCN-260(D) Series microGiGaCN™

RoHS Compliant



■ FEATURES

- I/O Connector designed for high speed differential signal applications.
- Matched Impedance (100 ohms $\pm 10\%$)
- Low insertion loss
- Low cross talk
- Adopted by InfiniBand as 10G Ethernet, SAS, & SATA for 4x/12x Interface



■ SPECIFICATIONS

Item	Specifications
Operating temperature range	-55°C to +85°C
Current rating	AC 0.5A (signal) AC 1A (ground)
Max. allowable voltage	AC 30
Contact resistance (20m VDC 10mA)	80 m ohms max. (signal) 45 m ohms max.(ground)
Insulation resistance	1000M ohms minimum
Dielectric withstanding voltage	AC 500V for 1 minute
Durability	250 cycles
Insertion force	55.5 N max. (8 pair) 73 N max. (24 pair)
Withdrawl force	2.5 N min. (8 pair) 8 N min. (24 pair)

■ MATERIALS

Item	Materials
Insulator	LCP Resin (UL94V-0)
Conductor	Copper Alloy
Plating	Contact: Gold Plating (PAGOS) Terminal: Gold coat over Pd-Ni plating Cover: Zinc

Product Specification are subject to change, please check our website (<http://us.fujitsu.com/connectors>) for the latest specifications.

microGiGaCN™ FCN- 260 (D) Series

The MicroGigaCN offers a cost-effective I/O solution for high-speed applications in data and telecommunications convergence (voice, data, video and storage). It offers four or twelve link widths, offering a scalable performance range of 500Mbps to 6Gbps per link to meet the needs of entry-level and high-end enterprise systems. Forward crosstalk is less than 4% at 100 pico second pulse-rise time (four-pair switching).

Fujitsu Components designed the MicroGiGaCN to specifically address the requirements for a high speed differential signal I/O connector.

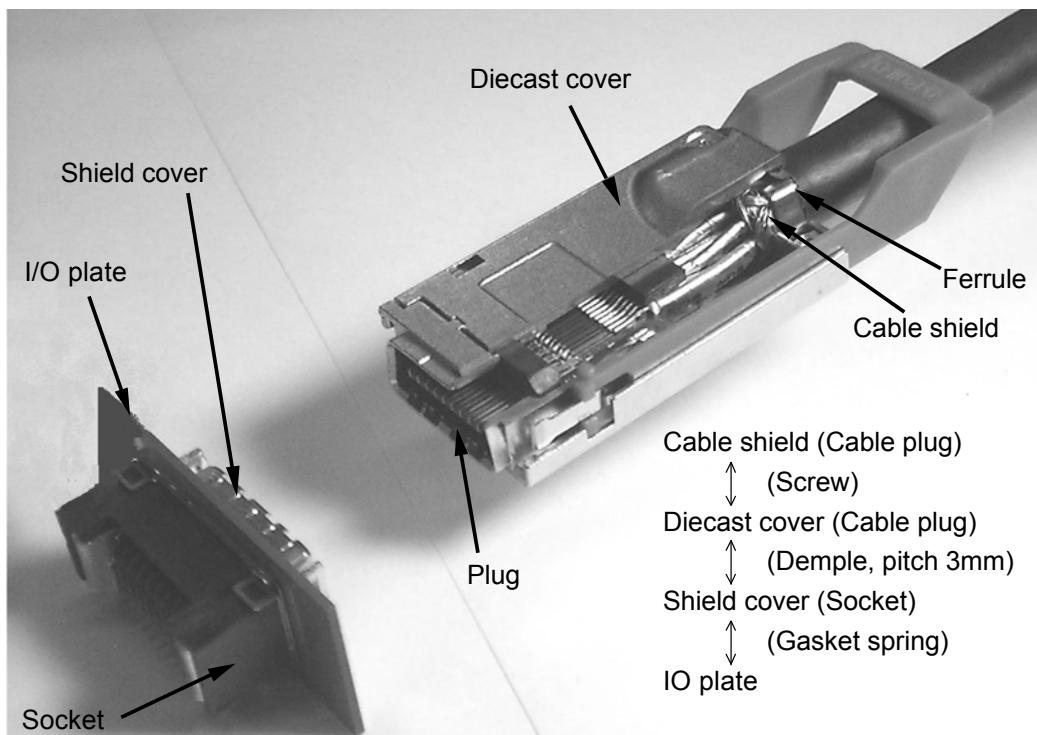
The MicroGiGaCN offers a unique solution to LVDS, InfiniBand, 10G Ethernet, 3G/6G SAS & SATA, and other high speed I/O applications. InfiniBand, IEEE802.3ak, SAS, & SATA have selected Fujitsu's connector for the 4x and 12x I/O connector interface.

The performance requirements of the connector system were tested with cable to simulate the actual requirements of an OEM System manufacturer. Our test data includes the parasitic effects of the PCB, along with measurements of a completed I/O cable assembly.

Electrical Performance in out testing:

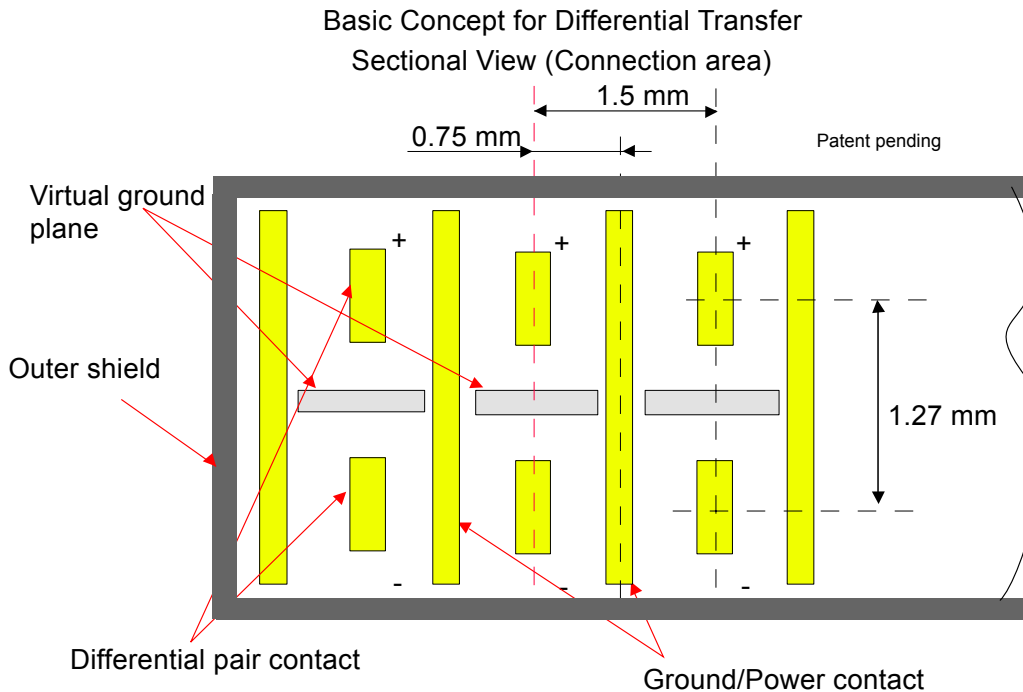
- Matched Impedance: 100±10 ohms @ 100 ps Trise
- Low Cross Talk: NEXT 4.0% @ 100pc Trise (20 to 80%)
- Low Insertion Loss: 2.3dB @ 2.5Gbps (1.25GHz, 1 meter Cable Assembly)
- Skew within Differential Pair: 14.4ps (2 connectors and 2 meter of cable)
- Skew pair to pair: 21.2ps (2 connectors and 2 meter of cable)

Connection



microGiGaCN™ FCN- 260 (D) Series

Basic Concept for Differential Transfer



Product Specification are subject to change, please check our website (<http://us.fujitsu.com/connectors>) for the latest specifications.

Fujitsu Components has designed the mechanical features of the connector to provide space saving footprint that will allow for 3 4x I/O connectors to mount onto a PCI form, or 2 12x. As RFI/EMI are critical elements in high performance cable assemblies, Fujitsu Components provides the surface mount sockets with an EMI Ground Spring on the face of the connector, to insure that the metal surface of the connector makes sufficient contact with the metal face of the card bracket.

The latching mechanism of the backshell offers a lanyard system for ease of un-mating the I/O plug connector/cable assembly from the SMT I/O socket. The die cast backshell offers excellent RFI/EMI characteristics. The backshell uses a ferrule and

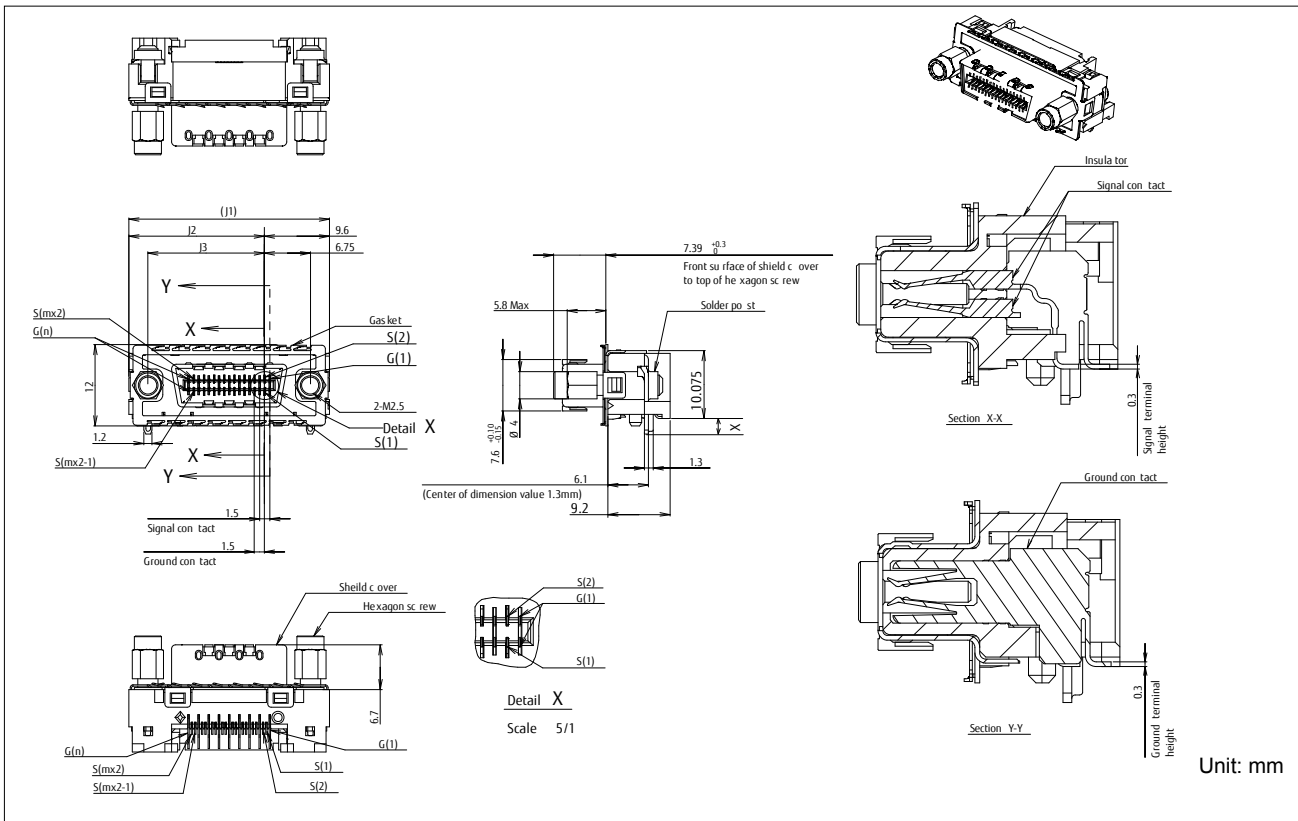
unique ground spring system to provide 360 degree contact of the cable shield to the backshell, which, combined with the solid interconnect of the socket to faceplate, offers low AC coupling termination.

The current version of the I/O plug comes with an attached paddlecard for wire termination. Fujitsu offers the paddlecard in either an equalized or un-equalized version (see factory for details of the equalized version). Standard product offering will be un-equalized. As there are multiple applications for the paddlecard, with industry and customer specific wire termination, Fujitsu Components offers options to customers of providing the I/O plug connector with custom paddlecards (consult factory).

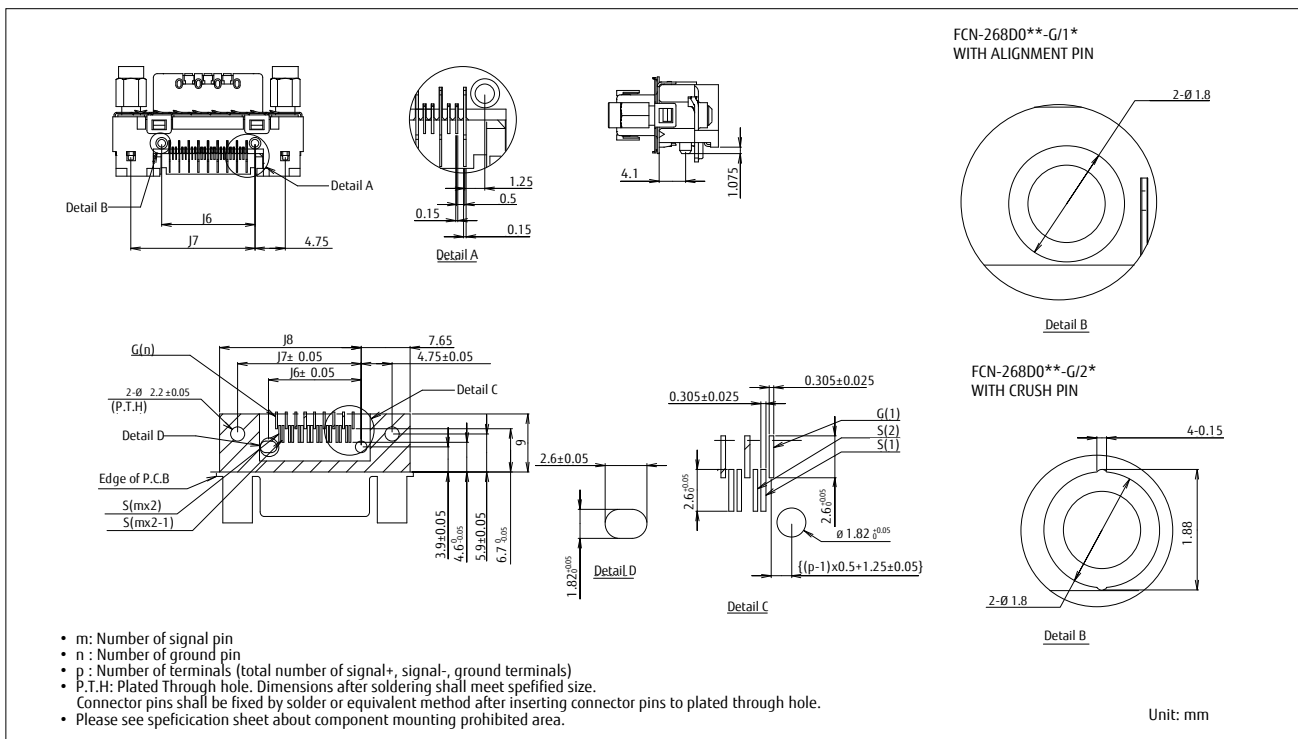
microGiGaCN™ FCN-260 (D) Series

CABLE I/O JACK SCREW LOCK TYPE - WITH ALIGNMENT PIN / WITH CRUSH PIN

■ DIMENSIONS



■ RECOMMENDED PCP LAYOUT

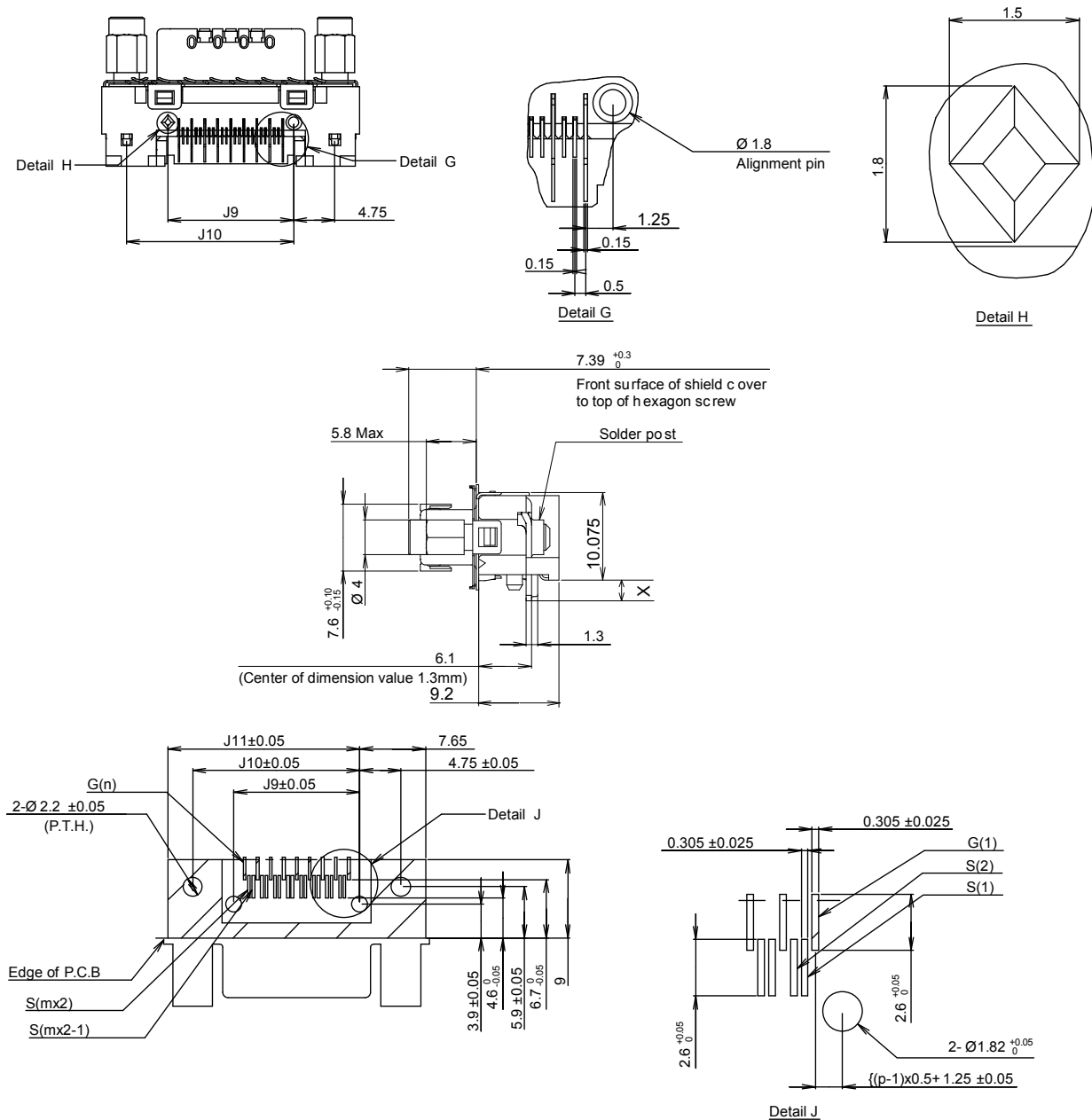


- m: Number of signal pin
- n: Number of ground pin
- p: Number of terminals (total number of signal+, signal-, ground terminals)
- P.T.H: Plated Through hole. Dimensions after soldering shall meet specified size.
- Connector pins shall be fixed by solder or equivalent method after inserting connector pins to plated through hole.
- Please see specification sheet about component mounting prohibited area.

microGiGaCN™ FCN-260 (D) Series

CABLE I/O JACK SCREW LOCK TYPE - WITH DIAMOND PIN

■ DIMENSIONS / RECOMMENDED PCP LAYOUT

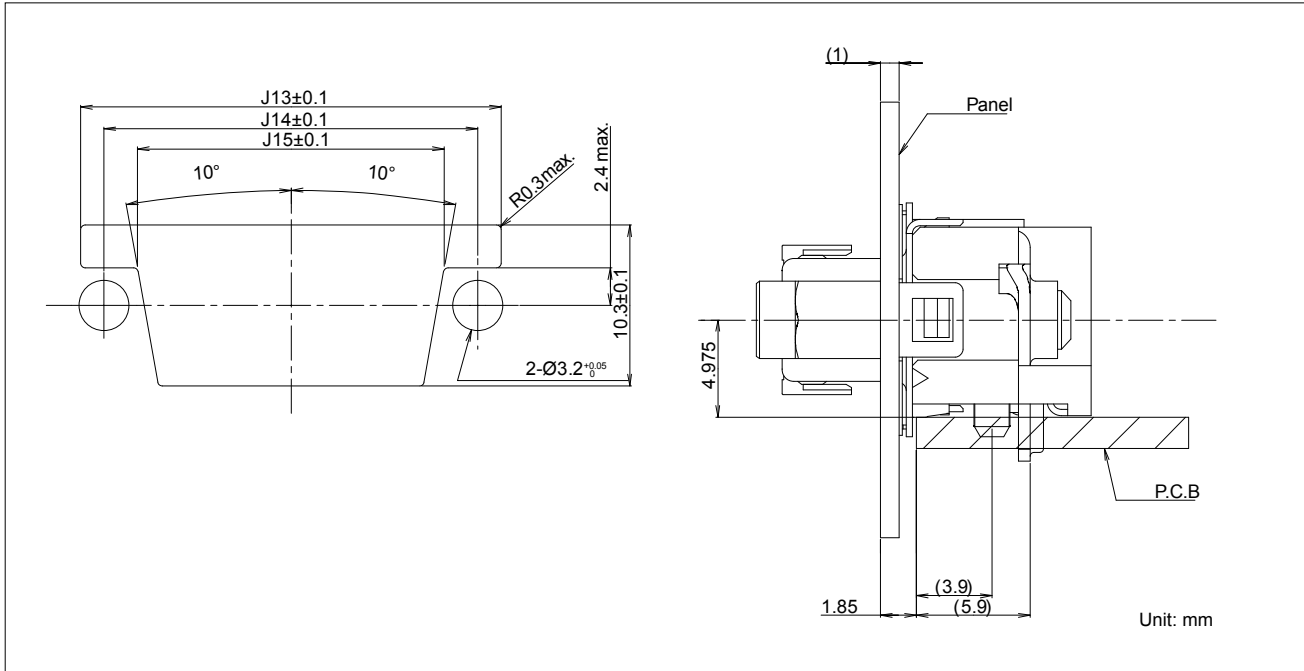


- m: Number of signal pin
- n: Number of ground pin
- p: Number of terminals (total number of signal+, signal-, ground terminals)
- P.T.H: Plated Through hole. Dimensions after soldering shall meet specified size.
- Connector pins shall be fixed by solder or equivalent method after inserting connector pins to plated through hole.
- Please see specification sheet about component mounting prohibited area.

microGiGaCN™ FCN-260 (D) Series

CABLE I/O JACK SCREW LOCK TYPE FCN-268D0**-G/ ** PANEL CUTOUT (REFERENCE)

■ DIMENSIONS



■ PART NUMBERS

Part Number	Dimensions (mm)		
	J13	J14	J15
FCN-264D008-G/**	27	24	19.7
FCN-264D024-G/**	51	48	43.7

microGiGaCN™ FCN- 260 (D) Series

CABLE I/O JACK SCREW LOCK TYPE - WITH ALIGNMENT PIN / WITH CRUSH PIN

■ PART NUMBERS

FCN-268D**-G/1 with alignment pin

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)						
			X	J1	J2	J3	J6	J7	J8
FCN-268D008-G/10	8	1.6	2.325	29.8	20.15	17.25	14.5	19.25	22.15
FCN-268D008-G/11		2.4	3.125	29.8	20.15	17.25	14.5	19.25	22.15
FCN-268D008-G/13		4.0	4.725	29.8	20.15	17.25	14.5	19.25	22.15
FCN-268D024-G/10	24	1.6	2.325	53.8	44.15	41.25	38.5	43.25	46.15
FCN-268D024-G/11		2.4	3.125	53.8	44.15	41.25	38.5	43.25	46.15
FCN-268D024-G/13		4.0	4.725	53.8	44.15	41.25	38.5	43.25	46.15

■ PART NUMBERS

FCN-268D**-G/2 with crush pin

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)						
			X	J1	J2	J3	J6	J7	J8
FCN-268D008-G/20	8	1.6	2.325	29.8	20.15	17.25	14.5	19.25	22.15
FCN-268D008-G/21		2.4	3.125	29.8	20.15	17.25	14.5	19.25	22.15
FCN-268D008-G/23		4.0	4.725	29.8	20.15	17.25	14.5	19.25	22.15
FCN-268D024-G/20	24	1.6	2.325	53.8	44.15	41.25	38.5	43.25	46.15
FCN-268D024-G/21		2.4	3.125	53.8	44.15	41.25	38.5	43.25	46.15
FCN-268D024-G/23		4.0	4.725	53.8	44.15	41.25	38.5	43.25	46.15

■ PART NUMBERS

FCN-268D**-G/3 with diamond pin

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)			
			X	J9	J10	J11
FCN-268D008-G/30	8	1.6	2.325	14.5	19.25	22.15
FCN-268D008-G/31		2.4	3.125	14.5	19.25	22.15
FCN-268D008-G/33		4.0	4.725	14.5	19.25	22.15
FCN-268D024-G/30	24	1.6	2.325	38.5	43.25	46.15
FCN-268D024-G/31		2.4	3.125	38.5	43.25	46.15
FCN-268D024-G/33		4.0	4.725	38.5	43.25	46.15

microGiGaCN™ FCN- 260 (D) Series

FCN-264D - VERTICAL MOUNT SOCKETS, LATCH STYLE

■ PART NUMBERS

FCN-264D**-G/1 with alignment pin

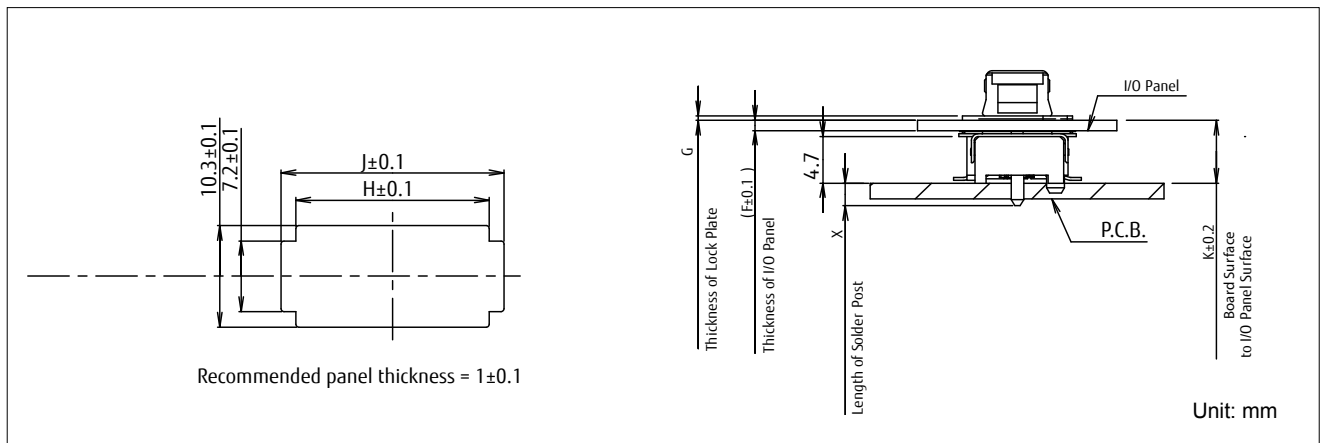
Part Number	Pair	PCB thickness (mm)	Dimensions (mm)			
			X	A	B	C
FCN-264D008-G/1D	8	1.6	2.325	17.675	14.5	17.7
FCN-264D008-G/1F		2.4	3.125	17.675	14.5	17.7
FCN-264D008-G/1K		4.0	4.725	17.675	14.5	17.7
FCN-264D024-G/1D	24	1.6	2.325	41.675	38.5	41.7
FCN-264D024-G/1F		2.4	3.125	41.675	38.5	41.7
FCN-264D024-G/1K		4.0	4.725	41.675	38.5	41.7

■ PART NUMBERS

FCN-264D**-G/2 with crush pin

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)			
			X	A	B	C
FCN-264D008-G/2D	8	1.6	2.325	17.675	14.5	17.7
FCN-264D008-G/2F		2.4	3.125	17.675	14.5	17.7
FCN-264D008-G/2K		4.0	4.725	17.675	14.5	17.7
FCN-264D024-G/2D	24	1.6	2.325	41.675	38.5	41.7
FCN-264D024-G/2F		2.4	3.125	41.675	38.5	41.7
FCN-264D024-G/2K		4.0	4.725	41.675	38.5	41.7

■ RECOMMENDED FOOTPRINT DIMENSIONS



■ PART NUMBERS

Part Number	Dimensions (mm)					Retention Clip Part Number
	J	K	N (Panel thickness)	P (Lock plate thickness)	K	
FCN-264D008-G/**	19.7	22.7	1.0	0.5	6.35	FCN-260A622
FCN-264D024-G/**	43.2	46.7	1.0	0.5	6.34	FCN-260A626

microGiGaCN™ FCN-260 (D) Series

4X / 12X RIGHT ANGLE MOUNT SOCKETS WITH LATCHES WITH ALIGNMENT POST OR CRUSH PIN OPTION

■ PART NUMBERS

FCN-268D**-G/1 with alignment pin

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)						
			X	A	B	E	F	G	M
FCN-268D008-G/1D	8	1.6	2.325	17.675	24.85	14.5	17.7	19.675	16.075
FCN-268D008-G/1F		2.4	3.125	17.675	24.85	14.5	17.7	19.675	16.075
FCN-268D008-G/1K		4.0	4.725	17.675	24.85	14.5	17.7	19.675	16.075
FCN-268D024-G/1D	24	1.6	2.325	41.675	48.85	38.5	41.7	43.675	40.075
FCN-268D024-G/1F		2.4	3.125	41.675	48.85	38.5	41.7	43.675	40.075
FCN-268D024-G/1K		4.0	4.725	41.675	48.85	38.5	41.7	43.675	40.075

■ PART NUMBERS

FCN-268D**-G/2 with crush pin

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)						
			X	A	B	E	F	G	M
FCN-268D008-G/2D	8	1.6	2.325	17.675	24.85	14.5	17.7	19.675	16.075
FCN-268D008-G/2F		2.4	3.125	17.675	24.85	14.5	17.7	19.675	16.075
FCN-268D008-G/2K		4.0	4.725	17.675	24.85	14.5	17.7	19.675	16.075
FCN-268D024-G/2D	24	1.6	2.325	41.675	48.85	38.5	41.7	43.675	40.075
FCN-268D024-G/2F		2.4	3.125	41.675	48.85	38.5	41.7	43.675	40.075
FCN-268D024-G/2K		4.0	4.725	41.675	48.85	38.5	41.7	43.675	40.075

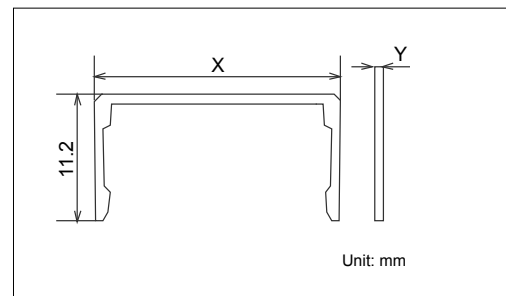
Retention Clip Hand Tool



FCN-268T-T514/H

For Assembly instructions, please see the Lock Plate Hand Tool Instruction Manual

Retention Clip



Each connector is shipped with 1 piece of FCN-260A622 (8-pair) or FCN-260A626 (24-pair) retention clip. To order connector and retention clip separately, please contact sales for part number.

■ PART NUMBERS

Part Number	Pair	Dimensions (mm)		Panel thickness (mm)
		X	Y	
FCN-260A622	8	23.45	0.5	1.0
FCN-260A626	24	47.45	0.5	1.0

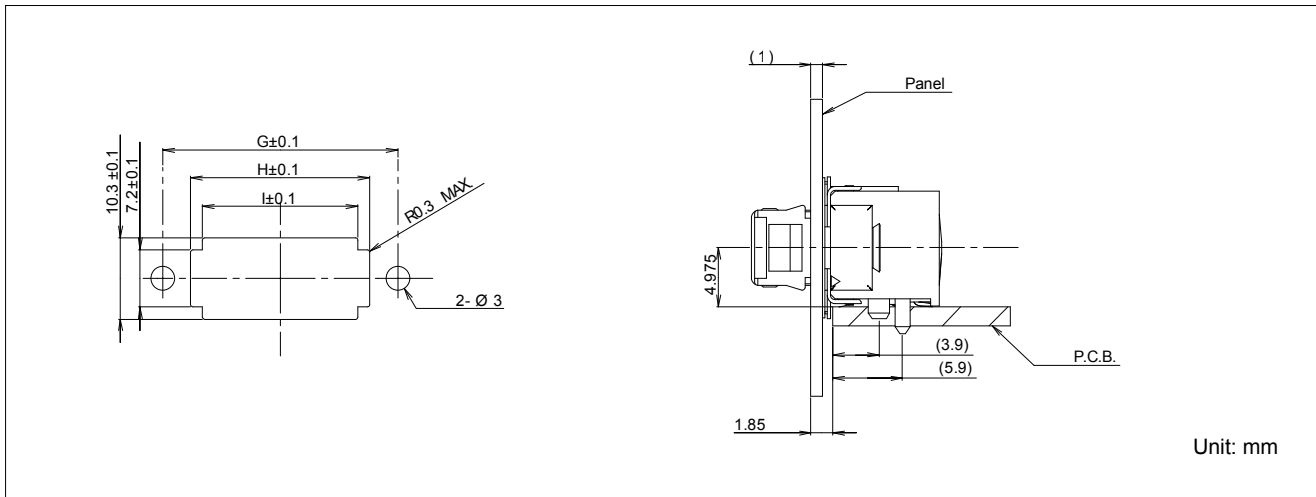
microGiGaCN™ FCN- 260 (D) Series

4X / 12X RIGHT ANGLE MOUNT CONNECTOR SOCKET WITH LATCHES, WITH MOUNTING EARS

■ PART NUMBERS

Part Number	Pair	PCB thickness (mm)	Dimensions (mm)									
			X	A	B	C	D	E	F	J	K	L
FCN-268D008-G/3L-R	8	1.6	2.4	24.34	17.42	20.175	23.025	17.7	14.5	25.025	16.075	16.65
FCN-268D008-G/3M-R		2.4	3.2	24.34	17.42	20.175	23.025	17.7	14.5	25.025	16.075	16.65
FCN-268D008-G/3P-R		4.0	4.8	24.34	17.42	20.175	23.025	17.7	14.5	25.025	16.075	16.65
FCN-268D024-G/3L-R	24	1.6	2.4	48.34	41.42	44.175	47.025	41.7	38.5	49.025	38.075	40.65
FCN-268D024-G/3M-R		2.4	3.2	48.34	41.42	44.175	47.025	41.7	38.5	49.025	38.075	40.65
FCN-268D024-G/3P-R		4.0	4.8	48.34	41.42	44.175	47.025	41.7	38.5	49.025	38.075	40.65

■ RECOMMENDED FOOTPRINT DIMENSIONS



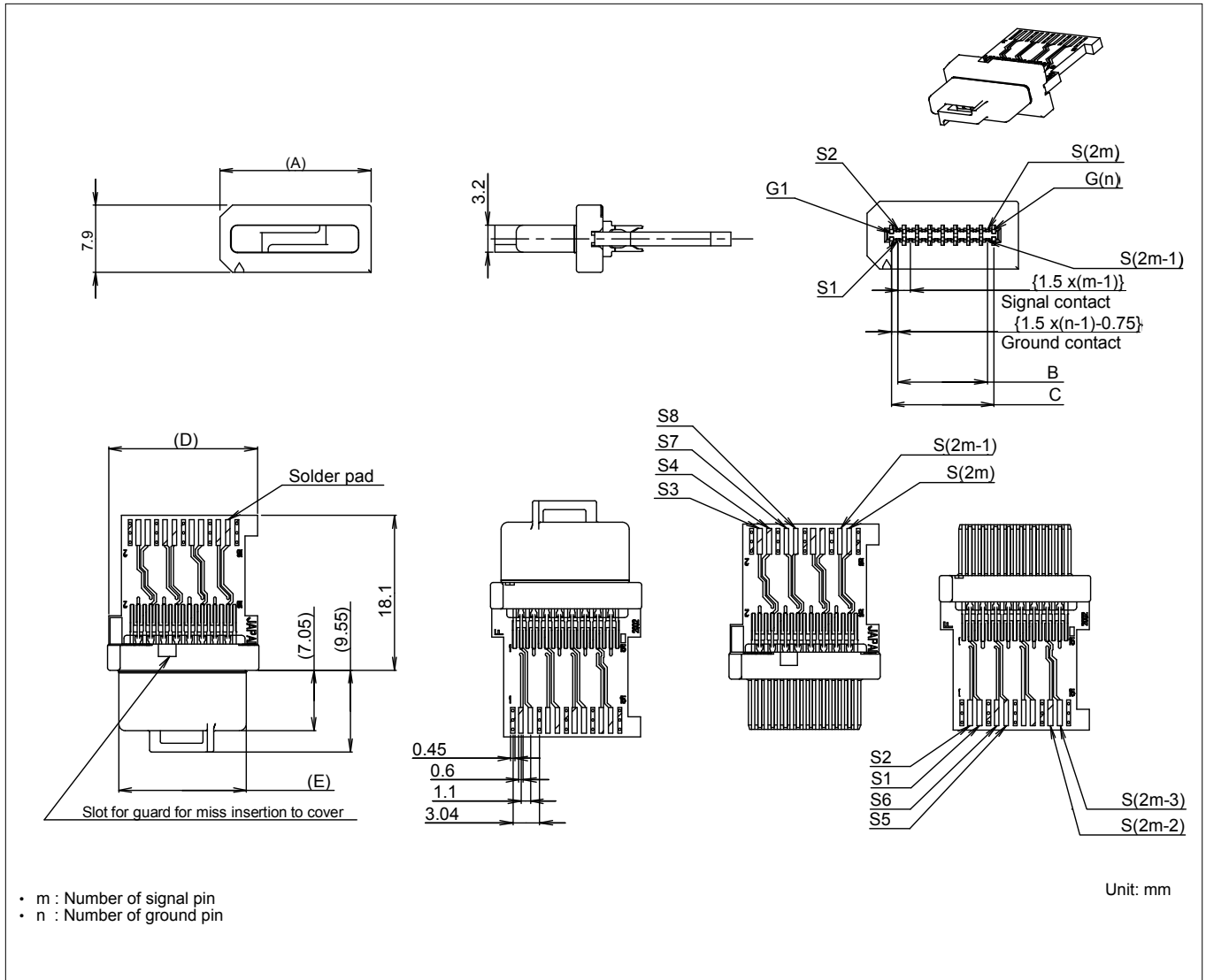
■ PART NUMBERS

Part Number	Dimensions (mm)		
	G	H	I
FCN-268D008-G/3*-R	29.85	22.7	19.7
FCN-268D024-G/3*-R	53.85	46.7	43.7

microGiGaCN™ FCN-260 (D) Series

4X / 12X PLUG CONNECTOR WITH INFINIBAND STYLE PCB

■ REFERENCE



■ PART NUMBERS

Part Number	Pair	Dimensions (mm)				
		A	B	C	D	E
FCN-261R008-G/5L	8	17.7	10.5	12.0	17.4	14.95
FCN-261R024-G/5L	24	41.7	34.5	36.0	41.4	38.95

microGiGaCN™ FCN- 260 (D) Series

4X / 12X PLUG CONNECTOR WITH INFINIBAND STYLE PCB (CABLE MOUNT)

■ PART NUMBERS

Non-Equalized Plug Kits

RoHS 6/6	Data Speeds	Status
FCN-261R008-G/0L	4x up to 3.2Gbps	To be Discontinued: September 2019
FCN-261R008-G/5L	4x up to 5Gbps	Active
FCN-261R024-G/0L	12x up to 3.2Gbps	To be Discontinued: September 2019
FCN-261R024-G/5L	12x up to 5Gbps	Active

Equalized Plug Kits

4x Plug Kits - Equalized

RoHS 6/6 (lead free solder)	Data Speeds	Equalized Pair	Status
FCN-261R008-G/6L#08	IB DDR 8 meter, 24AWG	1-4	Discontinued: March 2018
FCN-261R008-G/6L#10	IB DDR 10 meter, 24AWG	1-4	Discontinued: March 2018
FCN-261R008-G/6L#12	IB DDR 12 meter, 24AWG	1-4	Discontinued: March 2018
FCN-261R008-G/6M#08	IB DDR 8 meter, 26AWG	1-4	Discontinued: March 2018
FCN-261R008-G/6M#10	IB DDR 10 meter, 26AWG	1-4	Discontinued: March 2018
FCN-261R008-G/6M#12	IB DDR 12 meter, 26AWG	1-4	Discontinued: March 2018

12x Plug Kits - Equalized

RoHS 6/6 (lead free solder)	Data Speeds	Equalized Pair	Status
FCN-261R024-G/6L#08	12x IB DDR 8 meter, 24AWG	1-12	Discontinued: March 2018
FCN-261R024-G/6L#10	12x IB DDR 10 meter, 24AWG	1-12	Discontinued: March 2018
FCN-261R024-G/6L#12	12x IB DDR 12 meter, 24AWG	1-12	Discontinued: March 2018
FCN-261R024-G/6M#08	12x IB DDR 8 meter, 26AWG	1-12	Active
FCN-261R024-G/6M#10	12x IB DDR 10 meter, 26AWG	1-12	Active
FCN-261R024-G/6M#12	12x IB DDR 12 meter, 26AWG	1-12	Discontinued: March 2018

IB SDR = InfiniBand Single Data rate - 2.5Gbps

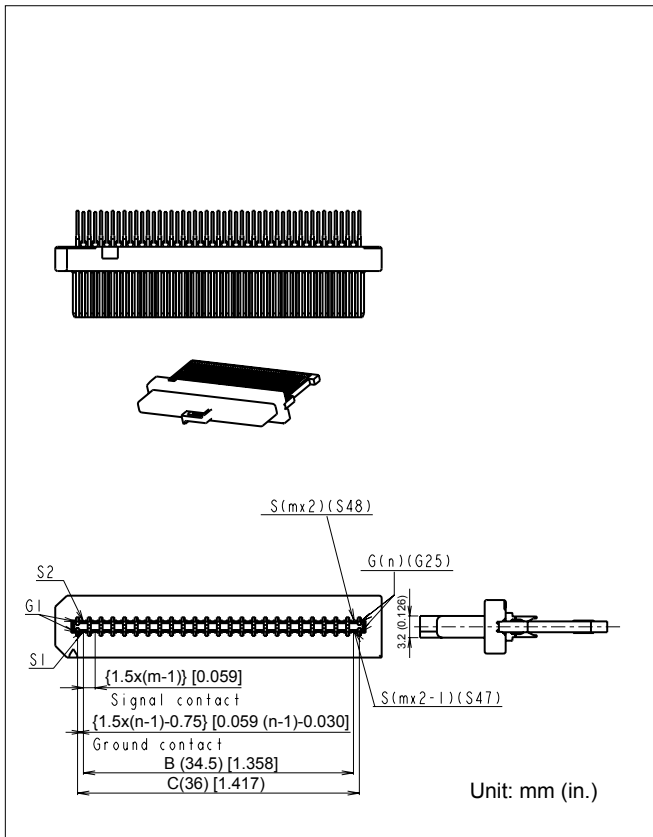
IB DDR = InfiniBand Double Data rate - 5Gbps

Equalized circuits are optimized for cable length / wire AWG

microGiGaCN™ FCN- 260 (D) Series

4X / 12X PLUG CONNECTOR WITHOUT PCB RECOMMENDED PADDLE CARD OUTLINE

■ DIMENSIONS



■ PART NUMBERS

Part Number	Pair	m	n	B	C
FCN-261R008-G/A	8	1-8	1-9	10.5 (0.413)	12.0 (0.472)
FCN-261R024-G/A	12	1-24	1-25	34.5 (1.358)	36.0 (1.417)

microGiGaCN™ FCN- 260 (D) Series

4X I/O CABLE ASSEMBLY (LATCH/THUMB SCREW) CONFORMS TO IBTA DDR / 100GBASE-CX4

■ PART NUMBERS

Conforming Standard
IB DDR (5Gbps)

Type	Cable	Cable length	Part Number
Latch	26AWG	1m	FCD-ZZ26001
		2m	FCD-ZZ26002
		3m	FCD-ZZ26003
		5m	FCD-ZZ26004
	28AWG	1m	FCD-ZZ26011
		2m	FCD-ZZ26012
		3m	FCD-ZZ26013
	30AWG	1m	FCD-ZZ26021
		2m	FCD-ZZ26022
Thumb screw	26AWG	1m	FCD-ZZ27001
		2m	FCD-ZZ27002
		3m	FCD-ZZ27003
		5m	FCD-ZZ27004
	28AWG	1m	FCD-ZZ27011
		2m	FCD-ZZ27012
		3m	FCD-ZZ27013
	30AWG	1m	FCD-ZZ27021
		2m	FCD-ZZ27022
Thumb screw	26AWG	1m	FCD-ZZ27023
		2m	FCD-ZZ27024
		3m	FCD-ZZ27025
		5m	FCD-ZZ27026
	28AWG	1m	FCD-ZZ27031
		2m	FCD-ZZ27032
		3m	FCD-ZZ27033
	30AWG	1m	FCD-ZZ27041
		2m	FCD-ZZ27042

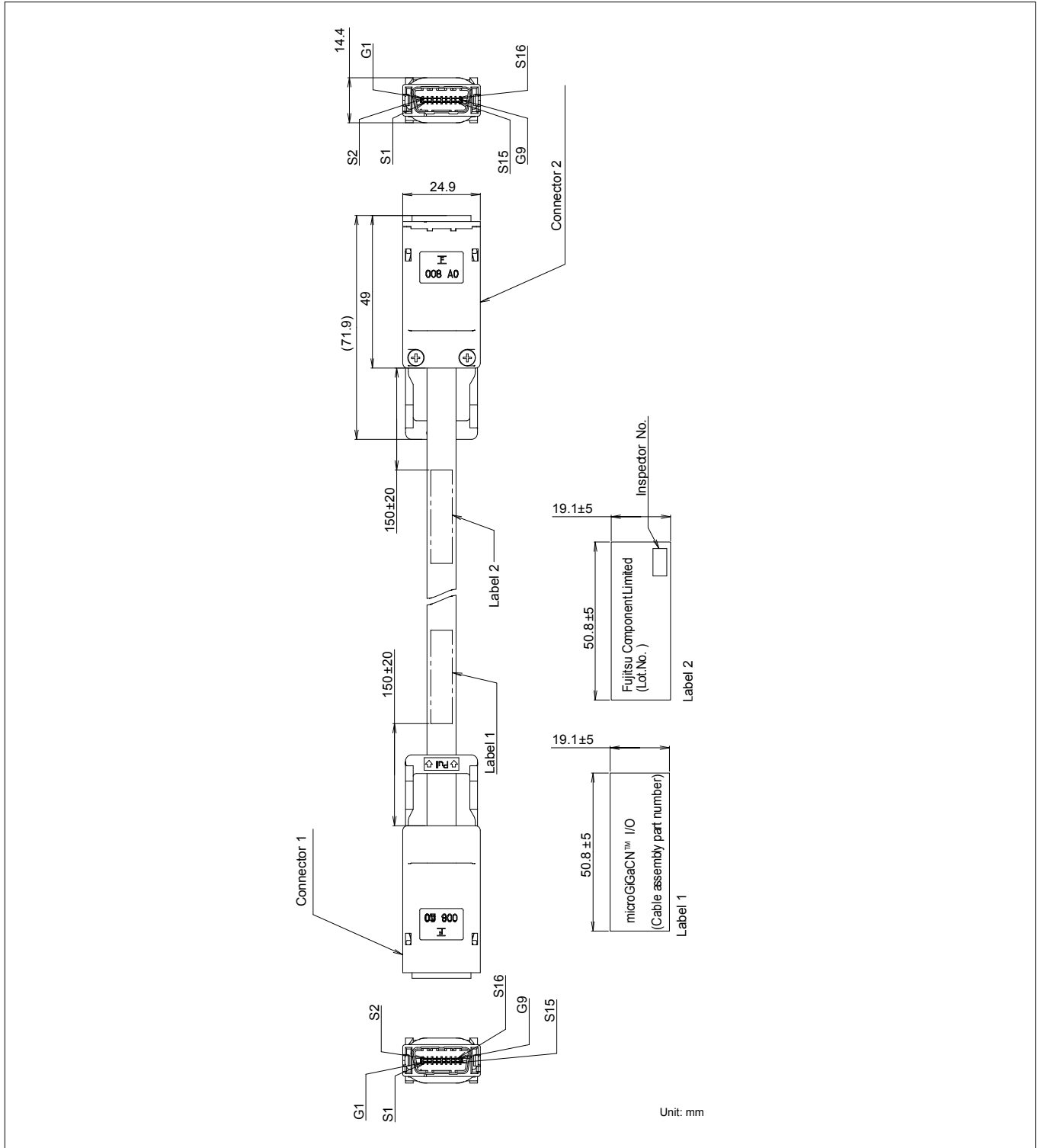
Conforming Standard
10GBASE-CX4 (3.215 Gbps)

Type	Cable	Cable length	Part Number
Latch	26AWG	1m	FCD-ZZ22001
		2m	FCD-ZZ22002
		3m	FCD-ZZ22003
		5m	FCD-ZZ22004
		7m	FCD-ZZ22005
		10m	FCD-ZZ22006
	28AWG	1m	FCD-ZZ22011
		2m	FCD-ZZ22012
		3m	FCD-ZZ22013
		5m	FCD-ZZ22014
		7m	FCD-ZZ22015
		10m	FCD-ZZ22016
	30AWG	1m	FCD-ZZ22021
		2m	FCD-ZZ22022
		3m	FCD-ZZ22023
		5m	FCD-ZZ22024
	26AWG	1m	FCD-ZZ23001
		2m	FCD-ZZ23002
		3m	FCD-ZZ23003
		5m	FCD-ZZ23004
		7m	FCD-ZZ23005
		10m	FCD-ZZ23006
Thumb Screw	26AWG	1m	FCD-ZZ23011
		2m	FCD-ZZ23012
		3m	FCD-ZZ23013
		5m	FCD-ZZ23014
		7m	FCD-ZZ23015
		10m	FCD-ZZ23016
	28AWG	1m	FCD-ZZ23021
		2m	FCD-ZZ23022
		3m	FCD-ZZ23023
		5m	FCD-ZZ23024
	30AWG	1m	FCD-ZZ23031
		2m	FCD-ZZ23032
		3m	FCD-ZZ23033
		5m	FCD-ZZ23034
	26AWG	1m	FCD-ZZ23041
		2m	FCD-ZZ23042
		3m	FCD-ZZ23043
		5m	FCD-ZZ23044
		7m	FCD-ZZ23045
		10m	FCD-ZZ23046

microGiGaCN™ FCN-260 (D) Series

4X I/O CABLE ASSEMBLY (LATCH/THUMB SCREW) CONFORMS TO IBTA DDR / 100GBASE-CX4

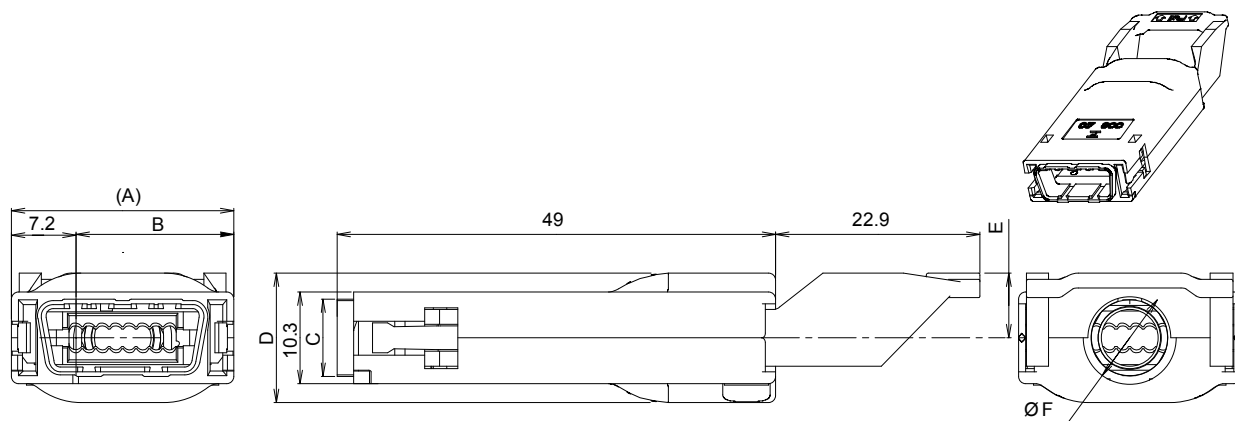
■ DIMENSIONS LATCH TYPE 4X)



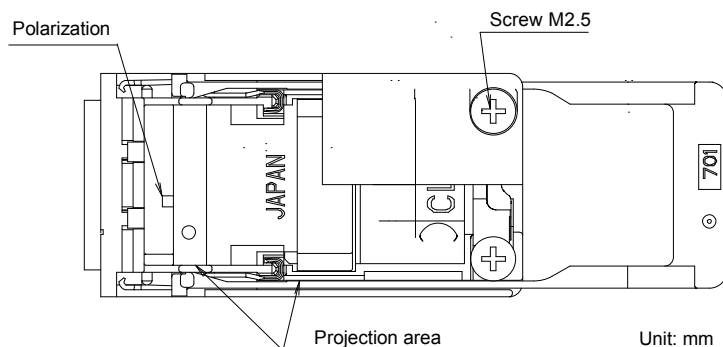
microGiGaCN™ FCN-260 (D) Series

4X / 12X BACKSHELL KITS, WITH LATCHES CABLE I/O PLUG COVER

■ DIMENSIONS



Projection of die casting cover



Attached parts	Quantity
Back shell screw (M2.5)	2
Ferrule	1
Innter ferrule	1
Back shell latch	2
Spring	1
Aligner*	1

* Aligner is not attached for FCN-260C008-E/L0

■ PART NUMBERS

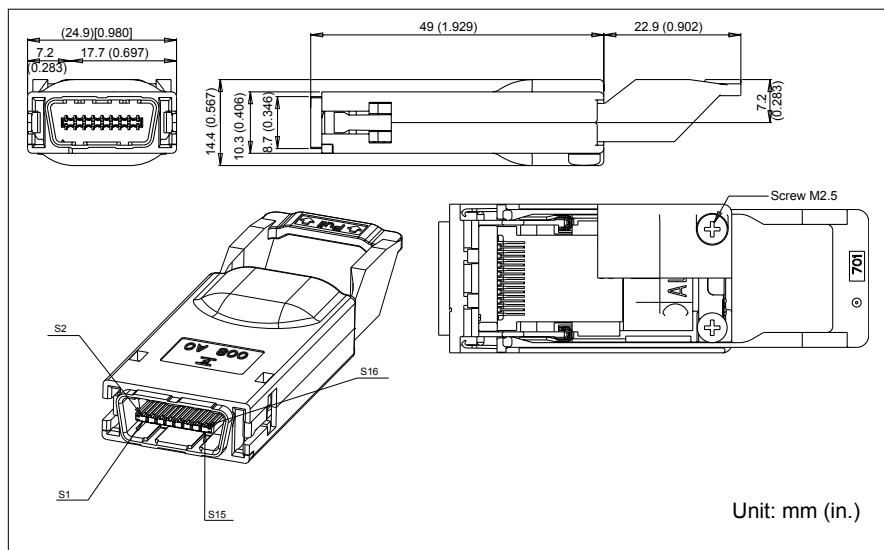
Part Number	Pair	Cable	Dimensions (mm)					
			A	B	C	D	E	F
FCN-260C008-A/L0	8	24AWG	24.9	17.7	8.7	14.4	7.2	10.45
FCN-260C008-C/L0		26AWG	24.9	17.7	8.7	14.4	7.2	9.23
FCN-260C008-E/L0		28AWG	24.9	17.7	8.7	14.4	7.2	9.23
FCN-260C024-A/L0	24	24AWG	48.9	41.7	8.7	21.0	10.5	15.65
FCN-260C024-C/L0		26AWG	48.9	41.7	8.7	17.5	10.5	14.3
FCN-260C024-E/L0		28AWG	48.9	41.7	8.3	16.4	8.2	13.3

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4X LOOPBACK MODULE - 8 PAIRS

FCN-261Z008 (ROHS 5/6) - discontinued, replaced by:
FCN-261Z008L (ROHS 6/6)

■ DIMENSIONS



Pin Number	
From	To
S1	S16
S2	S15
S3	S14
S4	S13
S5	S12
S6	S11
S7	S10
S8	S9

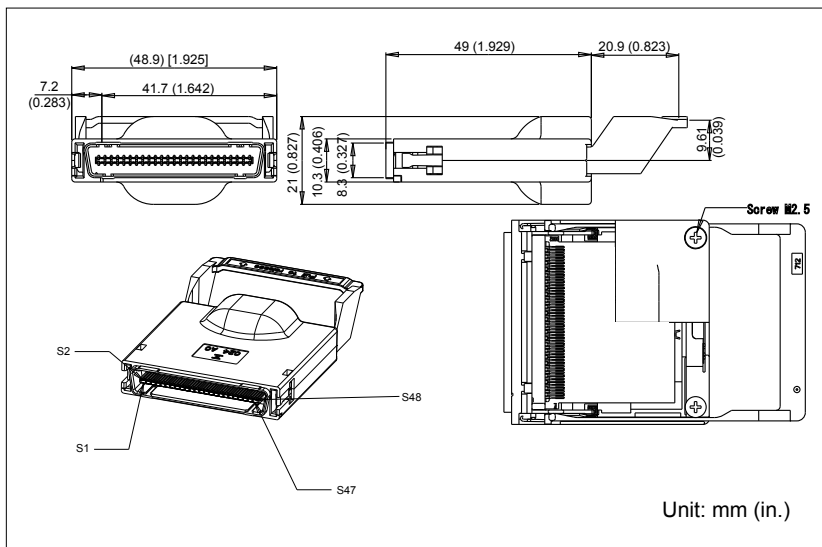
■ PART NUMBER

Part Number	Pair
FCN-261Z008L	8

12X LOOPBACK MODULE - 24 PAIRS

FCN-261Z024 (ROHS 5/6)- discontinued, replaced by:
FCN-261Z024L (ROHS 6/6)

■ DIMENSIONS



Pin Number		S12	S37
From	To	S13	S36
S1	S48	S14	S35
S2	S47	S15	S34
S3	S46	S16	S33
S4	S45	S17	S32
S5	S44	S18	S31
S6	S43	S19	S30
S7	S42	S20	S29
S8	S41	S21	S28
S9	S40	S22	S27
S10	S39	S23	S26
S11	S38	S24	S25

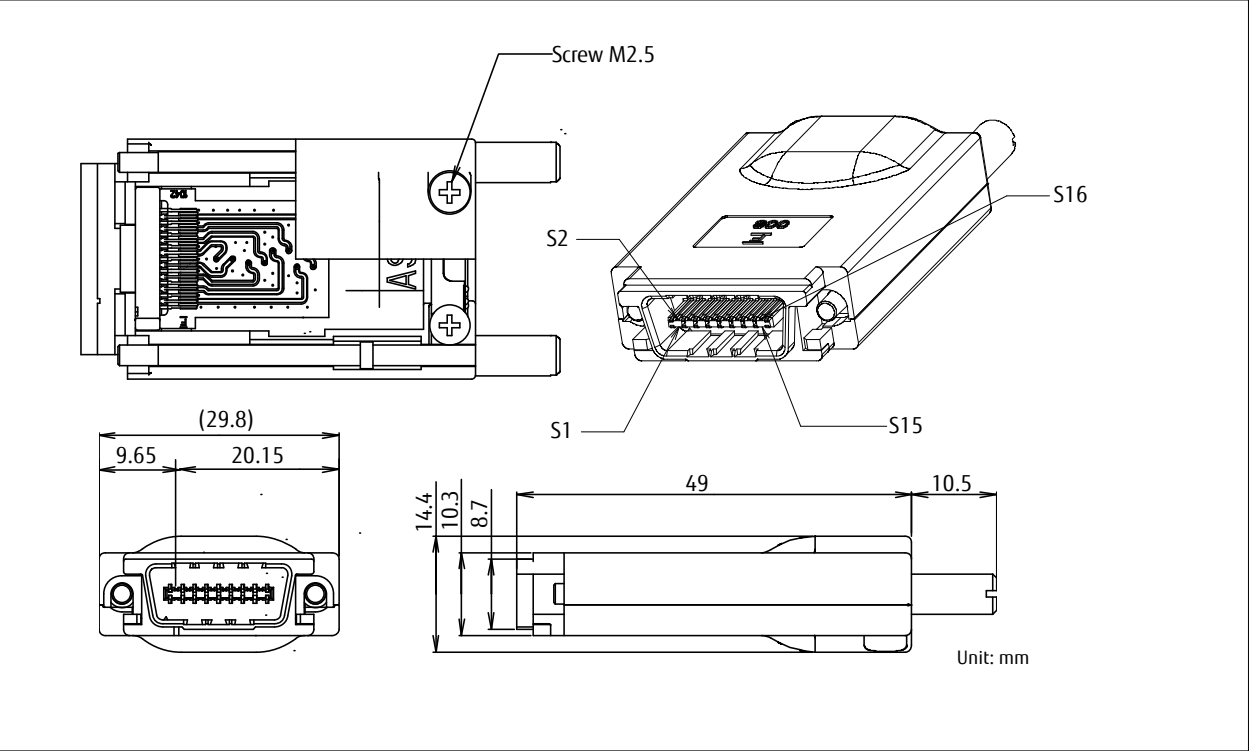
■ PART NUMBER

Part Number	Pair
FCN-261Z024L	24

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4X LOOPBACK MODULE - 8 PAIRS WITH THUMBSCREWS FCN-261Z008-SL

■ DIMENSIONS



■ PART NUMBER

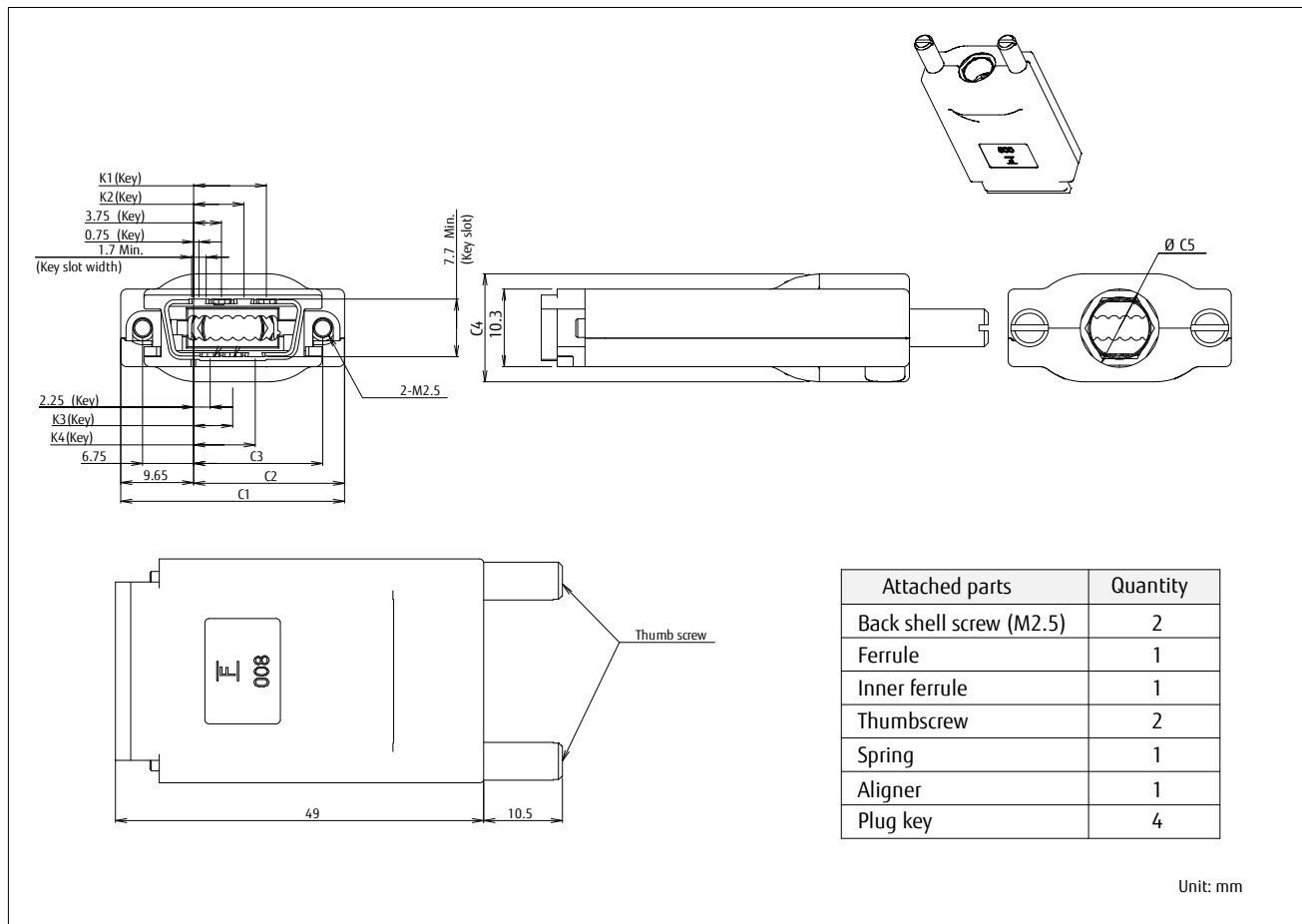
Part Number	Pair
FCN-261Z008-SL	8

Pin Number	
From	To
S1	S16
S2	S15
S3	S14
S4	S13
S5	S12
S6	S11
S7	S10
S8	S9

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4X / 12X BACKSHELL KIT, THUMBSCREWS

■ DIMENSIONS

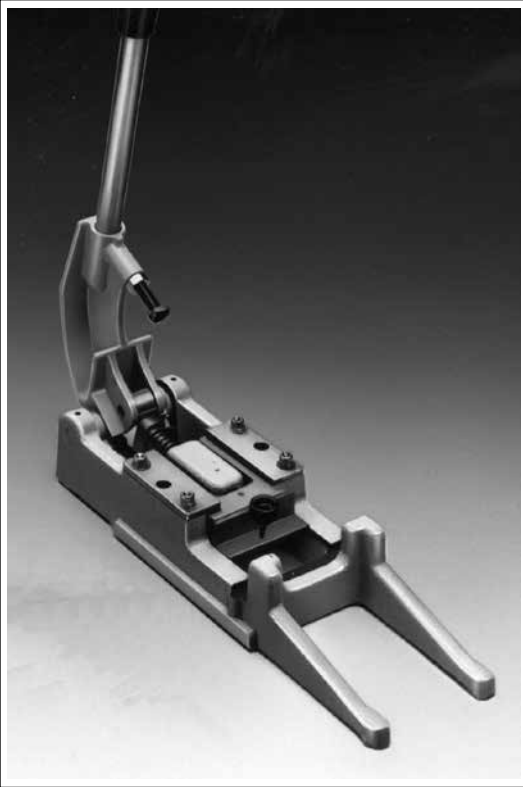


■ PART NUMBERS

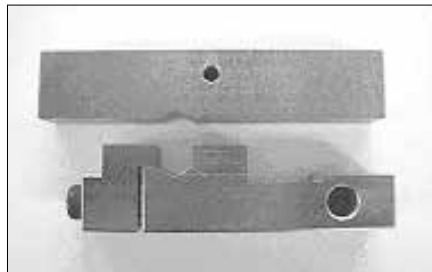
Part Number	Pair	Cable	Dimmensions (mm)								
			C1	C2	C3	C4	C5	K1	K2	K3	K4
FCN-260C008-A/S3	8	24AWG	29.8	20.15	17.25	14.4	10.45	9.75	6.75	5.25	8.25
FCN-260C008-C/S3		26AWG	29.8	20.15	17.25	14.4	9.23	9.75	6.75	5.25	8.25
FCN-260C024-A/S3	24	24AWG	53.8	44.15	41.25	21.0	15.65	33.75	30.75	29.25	32.25
FCN-260C024-C/S3		26AWG	53.8	44.15	41.25	17.5	14.3	33.75	30.75	29.25	32.25

microGiGaCN™ FCN- 260 (D) Series

■ ASSEMBLY TOOLS



FCN-237T-T109/H
Hand Press



Ferrule Crimp Dies

Ferrule Crimp Dies

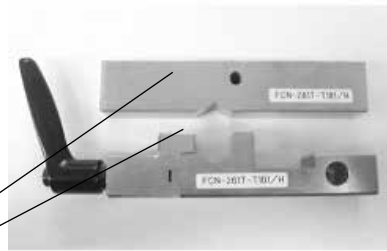
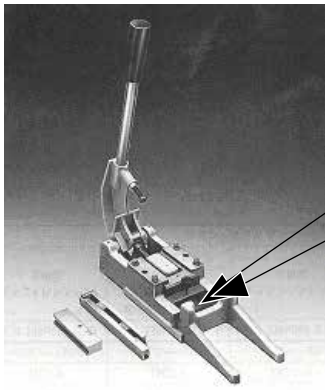
Part Number	Applicable Backshell	Applicable Cable OD	Notes
FCN-261T-T002/H	FCN-260C008-A/L0	9.53±0.4	Normally 8 pair, 24AWG
	FCN-260C008-A/S3	0.375±0.015	
FCN-261T-T103/H	FCN-260C008-C/L0	8.38±0.4	Normally 8 pair, 26AWG or 28AWG
	FCN-260C008-C/S3	0.330±0.015	
FCN-261T-T101/H	FCN260C024-E/L0	11.05±0.4	Normally 24 pair, 28AWG
		0.435±0.015	
FCN-261T-T105/H	FCN-260C024-A/L0	15.49±0.4	Normally 24 pair, 24AWG
	FCN-260C024-A/S3	0.610±0.015	

Both the press and ferrule crimp tool are required for the ferrule crimp process.
Note that additional tooling will be added to cover smaller wire bundle O.D.s. Please check with factory.

microGiGaCN™ FCN-260 (D) Series

■ INSTRUCTIONS FOR CABLE ASSEMBLY

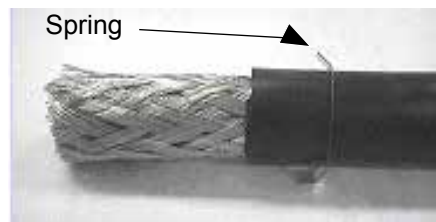
1. Set the crimping dies onto the hand press



After a set is completed

2. A ferrule and a spring are put on the cable.

a. Strip the cable insulator and put the spring, which shall be moved at the position where it does not interfere with assembly process.



b. The shield braid is turned back and cut the length of 13mm (0.512 in.)

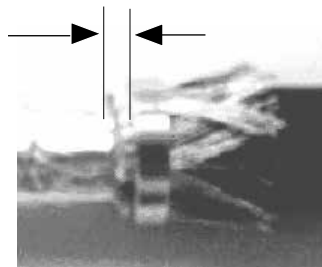
13mm (0.512 in.)



c. A ferrule is put on the position of 2mm from the end of the jacket



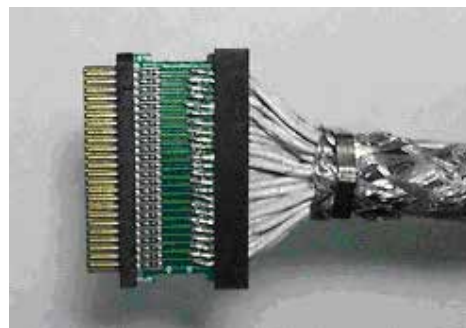
2mm (0.079 in.)



d. Strip the shield pair of wires (27mm [1.063in.] from the ring edge) and then wire insulation (27.5mm [1.082 in.]).



e. A shield of pair wires passed through the aligner, and solder the wires onto the paddle card.

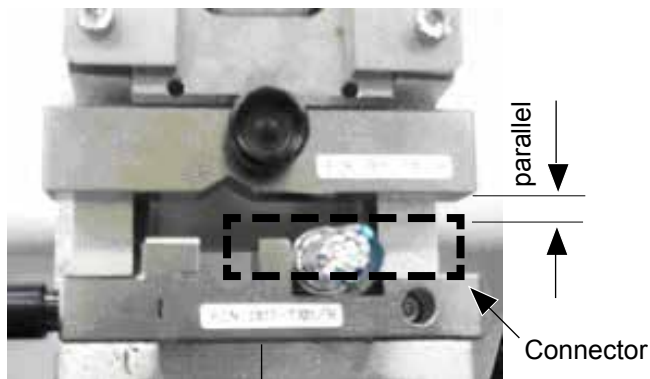


microGiGaCN™ FCN-260 (D) Series

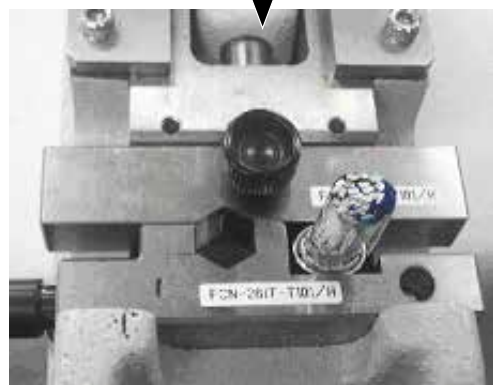
3. Ferrule crimping:

To explain the process clearly, the following photos do not have a paddle card.

a. Set the cable onto right side of the jig, and end of the jig, ferrule edges are made to become parallel, and surface of provisional crimp and the connector made to parallel, pre-crimp the ferrule until part A, D hit parts B, E. (The ferrule becomes an eclipse).



Cable		X (mm) [in.]
Pair	AWG	
8	24	10.5 [0.413]
24	24	15.60 [0.614]



b. Confirm that lever is tightened hardly. If it isn't, a lever shall be pulled to the front and tightened.

c. Set the cable at the table cavity at the left side. (The ferrule edge/end face shall be parallel to the jig).

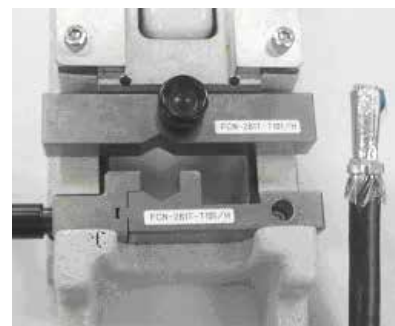
If a ring is not able to be inserted into the hollow, loosen with the lever, and insert the ferrule again. Then tighten with the lever.



d. Crimp ferrule until parts A, D hit parts B, E.



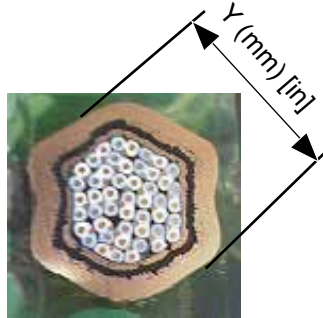
e. Hand press is returned to the original position, and loosened with the lever pulling forward.



f. Crimp completion.

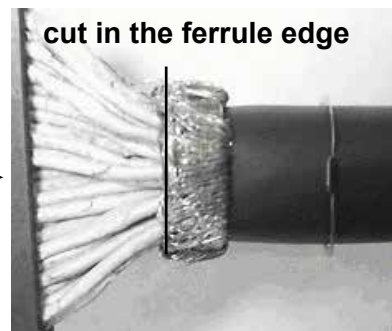
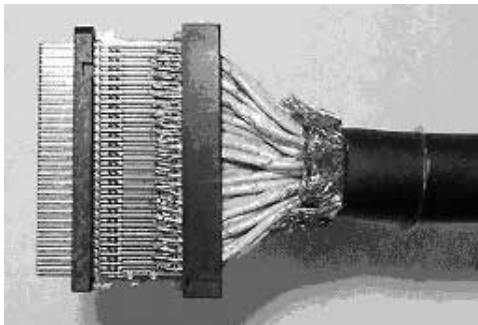
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Check Y dimension:



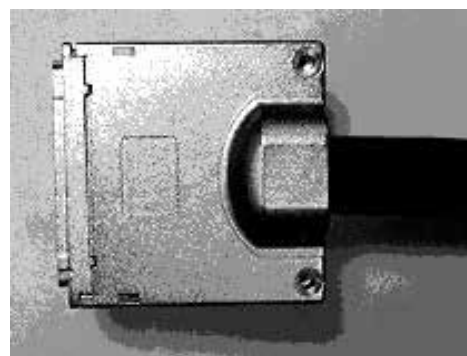
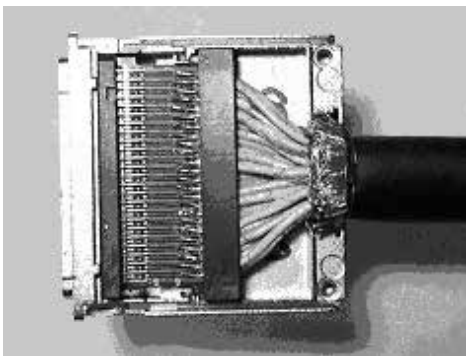
Cable		Y (mm) [in.]
Pair	AWG	
8	24	10.8 [0.425]
24	24	16.00 [0.630]

4. Turn back the jacket and cut in the ferrule edge.



5. Installation of cover:

g. Set the cable and soldered with the paddle card into the outer cover. (#1 pin position side of the connector shall be on top) and put another cover, and set the spring, which is initially put on the cable, at the edge of the ferrule and install it inside and then fix the covers with the screws.



microGiGaCN™ FCN- 260 (D) Series

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