



Constructional Data Form

Page 1/6

Licenseholder : **Tyco Electronics Japan G.K.**
3-5-8 Hisamoto, Takatsu-ku, Kawasaki-shi, Kanagawa 213-8535, Japan

Factory : **Tyco Electronics (Qingdao) Ltd.**
(full address) 3rd ST. Qingdao Export processing zone, Hetao Chengyang, Qingdao, Shandong 266113, P.R. China.
TE Connectivity connectors(Suzhou) Co., LTD.
No.33 Chunyao Road, Cauhe Subdistrict, Suzou Xiangchebg Economis Development Zone, 215000 Suzhou Jiangsu
P. R. China

Type or Model Number : Dynamic D-1000 Series (D-1100 , D-1200, D-1500 type)

Kind of device: Connector

Specifications			
Type designation	D-1100 , D-1200, D-1500 type		
Contact material	Copper alloy (Tin or Gold plating)		
Number of poles	40 Poles Max.		
Rated voltage	(AC/DC)		
	Overvoltage category		
		II	III
	D1100 type (2.0mm pitch)	125 V	75 V
	D1200 type (2.5mm pitch)	250 V	125 V
	D1500 type (3.5mm pitch)	250 V	125 V
Rated current	See Fig-1		
Rated frequency	AC 50/60		
Rated withstand voltage	D1100 type : 1000 V a.c. D1200 & D1500 type : 1500 V a.c.		
Mechanical endurance	500 cycles		
Overvoltage category	II 、 III		
Pollution degree	2		
Creepage / Clearance distance	Creepage Distance	Clearance in Air	
contact- contact (D-1100)	1.6mm	1.5mm	
contact- contact (D-1200)	2.9mm	1.6mm	
contact- contact (D-1500)	2.8mm	2.8mm	

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Constructional Data Form

Page 2/6

Insulation system	contact- contact (D-1100): ☒ basic ☐ reinforced ☐ NA contact- contact (D-1200): ☒ basic ☐ reinforced ☐ NA contact- contact (D-1500): ☒ basic ☐ reinforced ☐ NA contact- enclosure : ☐ basic ☐ reinforced ☒ NA
Classification	☐ CBC ☒ NCB ☐ other
Upper limit temperature	105°C
Lower limit temperature	-55°C
Max. ambient temp. at rated current	75°C
IP code	IP-00

Specifications (terminals)

Type of terminals	☐ WRAPPED CONNECTION ☒ CRIMPED CONNECTION ☐ CLIP CONNECTION ☐ PRESS-IN CONNECTIONS ☐ INSULATION DISPLACEMENT CONNECTION ☐ SCREWLESS TERMINALS ☐ SCREW TERMINALS ☐ FLAT, QUICK CONNECT TERMINATIONS ☐ SOLDER TERMINALS ☐ other:
Terminal designation	1 to 40
Spec. Tightening torque	N/A
Rated cross section of conductor	AWG# 30 to AWG# 18
Kind of conductor	Flexible copper wire
Required preparation of the conductor	NA
Max. Stripping length	2.3 mm
Max. Number of conductors per terminal	1

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Constructional Data Form

Page 3/6

Fig-1 Maximum Current (A)

Number of Circuit	Wire Gauge						
	AWG#18	AWG#20	AWG#22	AWG#24	AWG#26	AWG#28	AWG#30
1	5	4	3	2.5	2	1.5	1
2 to 20	3.5	2.7	2.5	2	1.5	1	0.8
21 to 40	–	–	2	1.5	1	0.8	0.5

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Constructional Data Form

Page 4/6

TYPE NOMENCLATURE:

D-1100 type

Receptacle Housing	
Part Number	Poles
□-1939758-4	4
□-1939758-8	8
□-1827862-5	10
□-1939758-0	10
□-1827862-9	18
□-2040555-9	18
□-1827862-0	20
□-2040555-0	20
□-2333149-0	20
□-1827863-1	22
□-1871057-1	22
□-1827863-2	24
□-1871057-2	24
□-1827863-3	26
□-1871057-3	26
□-2333134-3	26
□-1827863-4	28
□-2333134-4	28
□-1827863-5	30
□-1871057-5	30
□-1827863-6	32
□-1871057-6	32
□-1827863-7	34
□-2333134-7	34
□-1827863-0	40
□-1871057-0	40
□-2333134-0	40

Header	(Horizontal type)
Part Number	Poles
□-1939760-4	4
□-1939761-4	4
□-1939760-8	8
□-1827873-5	10
□-1939760-0	10
□-1939761-0	10
□-2271887-5	10
□-2379284-5	10
□-1827873-0	20
□-2281887-0	20
□-2379284-0	20
□-1939638-3	26
□-2271888-3	26

Header	(Horizontal type)
Part Number	Poles
□-2372488-3	26
□-1939638-4	28
□-2271888-4	28
□-2372488-4	28
□-1939638-5	30
□-2013653-5	30
□-2271888-5	30
□-2372488-5	30
□-1939638-7	34
□-2271888-7	34
□-2372488-7	34
□-1939638-0	40
□-2013653-0	40
□-2271888-0	40
□-2372488-0	40

Header	(Vertical type)
Part Number	Poles
□-2394617-4	4
□-2390471-4	4
□-2394617-8	8
□-2390471-8	8
□-2394617-0	10
□-2390471-0	10
□-1554590-5	10
□-2040516-5	10
□-2342421-5	10
□-2379285-5	10
□-2040516-9	18
□-2040557-9	18
□-2379285-9	18
□-1554590-0	20
□-2040557-0	20
□-2047516-0	20
□-2342421-0	20
□-2379285-0	20
□-1827872-1	22
□-1871056-1	22
□-2013710-1	22
□-2329463-1	22
□-1871315-1	22
□-1871056-2	24
□-1871315-2	24

Header	(Vertical type)
Part Number	Poles
□-1827872-2	24
□-2329463-2	24
□-1827872-3	26
□-1871056-3	26
□-1939995-3	26
□-2329463-3	26
□-2339471-3	26
□-1871315-3	26
□-1827872-4	28
□-1871056-4	28
□-2329463-4	28
□-1871315-4	28
□-1827872-5	30
□-1871315-5	30
□-1871056-5	30
□-2013557-5	30
□-2329463-5	30
□-1827872-6	32
□-1871056-6	32
□-2329463-6	32
□-1871315-6	32
□-1827872-7	34
□-2329463-7	34
□-1871315-7	34
□-1827872-0	40
□-1871315-0	40
□-1871056-0	40
□-1939995-0	40
□-2329463-0	40
□-1871315-0	40

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Constructional Data Form

Page 5/6

Tab Housing		
Panel Mount	Free Hanging	Poles
☐ -2069681-5	☐ -2069682-5	10
☐ -1903128-1	☐ -1903127-1	22
☐ -1903128-3	☐ -1903127-3	26
☐ -1903128-4	☐ -1903127-4	28
☐ -1903128-6	☐ -1903127-6	32
☐ -1903128-7	☐ -1903127-7	34
☐ -1903128-0	☐ -1903127-0	40
☐ -2350416-0		40

Note: The prefix number denotes Keying type, Color, or other variations not affecting the electrical or mechanical function of the devices. (e.g. 1 ~ 9)

D-1200 type

Receptacle Housing	
Part Number	Poles
☐ -1871465-2	2
☐ -1827864-2	4
☐ -1939028-2	4
☐ -1827864-3	6
☐ -1939028-3	6
☐ -1827864-4	8
☐ -1939028-4	8
☐ -1827864-5	10
☐ -1939028-5	10
☐ -1827864-6	12
☐ -1939028-6	12
☐ -1827864-8	16
☐ -1827864-0	20
☐ -1939028-0	20

Header	(Horizontal type)
Part Number	Poles
☐ -1827876-2	4
☐ -1871673-2	4
☐ -1939818-2	4
☐ -1827876-3	6
☐ -1554692-3	6
☐ -1871673-3	6
☐ -1939818-3	6
☐ -1827876-4	8
☐ -1939818-4	8
☐ -1827876-5	10
☐ -1827876-6	12
☐ -1871673-6	12
☐ -1939818-6	12
☐ -2013556-1	12
☐ -1827876-8	16
☐ -1827876-0	20
☐ -1939818-0	20

Header	(Vertical type)
Part Number	Poles
☐ -1871468-2	2
☐ -1827875-2	4
☐ -1939261-2	4
☐ -2040558-2	4
☐ -1827875-3	6
☐ -1939261-3	6
☐ -2013651-1	6
☐ -2040558-3	6
☐ -1827875-4	8
☐ -1939261-4	8
☐ -1827875-5	10
☐ -1939261-5	10
☐ -2040558-5	10
☐ -1827875-6	12
☐ -1939261-6	12
☐ -2013184-1	12
☐ -2040558-6	12
☐ -1827875-8	16
☐ -1827875-0	20
☐ -1939261-0	20

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Constructional Data Form

Page 6/6

Tab Housing		
Panel Mount	Free Hanging	Poles
–	☐ -1903129-2	2
☐ -1903131-2	☐ -1903130-1	4
☐ -1903131-3	☐ -1903130-3	6
☐ -2069829-3	☐ -1939796-3	6
☐ -1903131-4	☐ -1903130-4	8
☐ -2069829-4	–	8
☐ -1903131-6	☐ -1903130-6	12
☐ -1903131-0	☐ -1903130-0	20

Note: The prefix number denotes Keying type, Color, or other variations not affecting the electrical or mechanical function of the devices. (e.g. 1 ~ 9)

D-1500 type

Receptacle Housing	
Part Number	Poles
☐ -1827579-1	3
☐ -2069029-2	6
☐ -2069029-3	9
☐ -2069029-4	12

Header (Horizontal type)	
Part Number	Poles
☐ -1827583-2	6

Header (Vertical type)	
Part Number	Poles
☐ -1827581-1	3
☐ -1827581-2	6
☐ -1827581-3	9
☐ -1827581-4	12

Tab Housing		
Part Number		Poles
Panel Mount	Free Hanging	
–	☐ -2040444-1	3
☐ -2040404-2	☐ -2040444-2	6
☐ -2040404-3	☐ -2040444-3	9
☐ -2040404-4	☐ -2040444-4	12
☐ -2040404-2	–	36

Note: The prefix number denotes Keying type, Color, or other variations not affecting the electrical or mechanical function of the devices. (e.g. 1 ~ 9)

Contacts

Receptacle		Tab		Wire range (AWG#)
Strip Form	Loose Form	Strip Form	Loose Form	
1827569-2	1827586-2	1903111-2	1903115-2	28 – 30
1827570-2	1827587-2	1903112-2	1903116-2	22 – 28
1827571-2	1827588-2	1903113-2	1903117-2	22 – 28
1939991-2	1939992-2	–	–	22 – 28
1827572-2	1827589-2	1903114-2	1903118-2	18 – 22
1871303-1	1871743-1	1903120-1	1903124-1	22 – 28
1871304-1	1871744-1	1903121-1	1903125-1	22 – 28
1871731-1	1871745-1	1903122-1	1903126-1	18 – 22
1827569-4	1827586-4	1903111-4	1903115-4	28 – 30
1827570-4	1827587-4	1903112-4	1903116-4	22 – 28
1827571-4	1827588-4	1903113-4	1903117-4	22 – 28
1827572-4	1827589-4	1903114-4	1903118-4	18 – 22

Note: -1: Tin plating, -2, -4: Gold plating.

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