

CABLE DRAWING: **CAB-0XXX (SALEM CODE)**

DRAWING TITLE:
SBC(ASC-I2C) Internal Control Cable

DRAWING NO.: MWACAB-0037	DRAWN BY: DRC	DATE: 23-Dec-09	REV: A
		SHEET: 1 of 3	

Cable Detail:

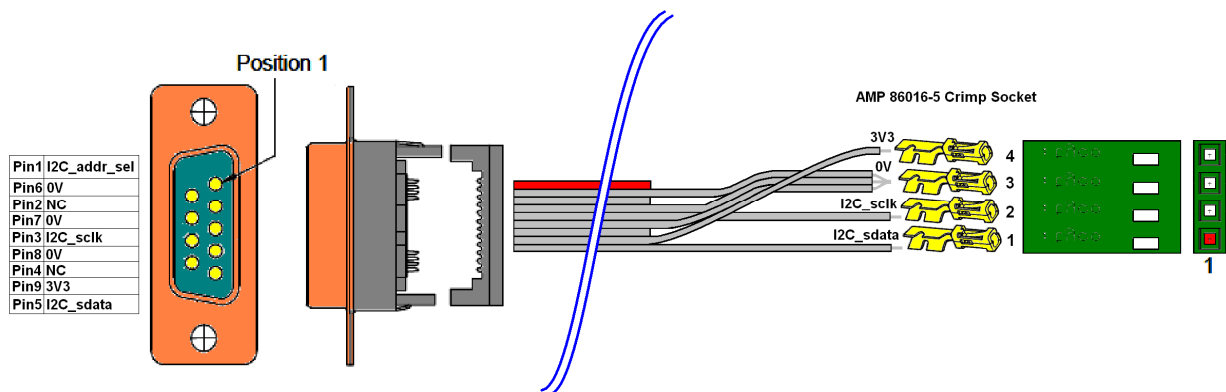
Connectors:	Description	Parts (Qty)
SBC FP	DE9 Male IDC	See Note1 Below(1)
ATIM-C	4-Way AMP Shell	See Note2 Below(1)
ATIM-C	AMP Shell Socket	See Note2 Below(4)
Conductors:		
Cable	Ribbon Cable, Flat, 10-Way	See Note2 Below(??)
Misc:		

Overall Length ??+/-5mm

Notes:

1. DE9 Male IDC connector can be supplied from Farnell #469-373. Any equivalent will be OK refer to data sheets supplied with this drawing.
2. 4-Way Shell can be supplied from Farnell #968-9230. Any equivalent will be OK refer to data sheets supplied with this drawing.
3. Socket Pin can be supplied from Farnell #973-300. Any equivalent will be OK refer to data sheets supplied with this drawing.
4. The ribbon cable can be supplied from RS #363-626 or PSI Stock# PC-0004. Any equivalent will be OK refer to data sheets supplied with this drawing.

Typical Drawing:



REVISION

Date	Rev	Remarks
23/12/09	A	Draft



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DRAWING NO.: MWACAB-0037	DRAWN BY: DRC	DATE: 23-Dec-09 SHEET: 2 of 3	REV: A
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Pinouts Table:

ASC-I2C Pins(9)		ATIM Control J6/J7 Pins(4)
1	I2C_addr_sel	
6	0V	3
2	NC	
7	0V	3
3	I2C_sclk	2
8	0V	3
4	NC	
9	3V3	4
5	I2C_sdata	1

Connection Detail:

From: (SBC) SBC Front Panel I2C Connector
 To: (SBC) ATIM-C Connector (J6 or J7)

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		SHEET: 3 of 3	

Assembly Details:

Wire Preparation

The wire must be stripped to the dimension provided in Figure 2.

Do not nick, scrape, or cut the wire conductor during the stripping operation.

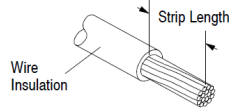


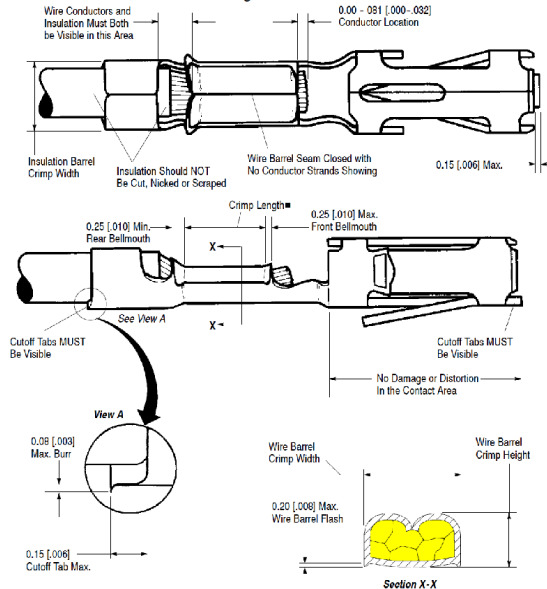
Figure 2

WIRE SIZE RANGE, (AWG)	INSUL DIA MAX.	STRIP LENGTH	WIRE BARREL		INSUL BARREL CRIMP WIDTH
			CRIMP HEIGHT	CRIMP WIDTH	
20	•	4.78-3.58	0.94-0.72	1.4	1.57
22	•	4.78-3.58	0.84-0.72		
24	•	4.78-3.58	0.83-0.64		
22	1.55	4.37-2.77	0.97-0.81	1.07	
24	1.55	4.37-2.77	0.86-0.71		
26	1.55	4.37-2.77	0.81-0.71		
26-30	1.22	4.37-2.77	0.74-0.64	1.4	1.4
27, 28	1.02	4.37-2.77	0.61-0.51	0.84	
30, 32	1.02	4.37-2.77	0.61-0.48		

Crimp Length

For optimum crimp effectiveness, the crimp must be within the area shown and must meet the crimp dimensions provided in Figure 3. Effective crimp length shall be defined as that portion of the wire barrel, excluding bellmouth(s), fully formed by the crimping tool.

Figure 3



NOTE: Comparing a crimped contact to an uncrimped contact should reveal any fault that may have occurred to front shoulder or locking lances during crimping.

■ Effective crimp length shall be 2.67 mm minimum for 20-24 AWG wire, and 2.16 mm minimum for all other wire sizes; and is defined as that portion of the wire barrel fully formed by the tool, excluding the bellmouths.

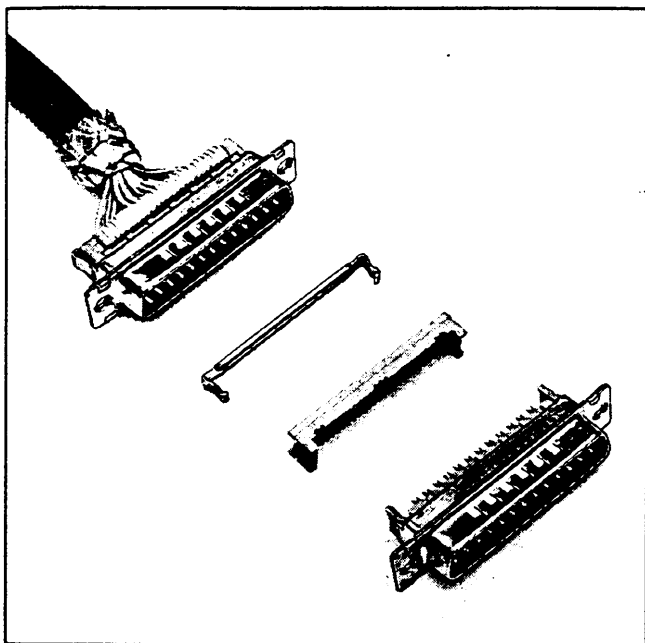
REVISION

Date	Rev	Remarks
23/12/09	A	Draft

D Sub

Plug Connector

8200 Series



- Available in either pre-assembled or two piece covers
- Available in either open or closed end cover
- Available with dimples to aid in EMI/ESD protection
- Improved metal strain relief hooks directly to metal shell
- Low profile
- Four mounting options

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TS-0234-11
Sheet 1 of 3

Physical

Insulation

Material: Glass Filled Polyester (PBT)
 Flammability: UL 94V-0
 Color: Gray

Contact

Material: Beryllium Copper
 Plating
 Underplate: 50 μ " (1.27 μ m) Nickel — QQ-N-290, Class 2
 Wiping Area: 30 μ " (0.76 μ m) Gold — MIL-G-45204, Type II, Grade C

Shell

Material: Steel
 Plating: 197-394 μ " (5-10 μ m) 90/10 Tin Lead Over Copper
 Strain Relief Material: Stainless Steel .016 (0.40) Thick
 Wire Accommodation: 26 & 28 AWG Solid or Stranded
 Marking: 3M Logo & Contact Position Numbers

Electrical

Current Rating: 1 A
 Insulation Resistance: $> 1 \times 10^9 \Omega$ at 500 VDC
 Withstanding Voltage: 1000 Vrms at Sea Level

Environmental

Temperature Rating: -55° to $+105^\circ$

UL File No.: E68080
 CSA File No.: LR 40971

3M Electronic Products Division

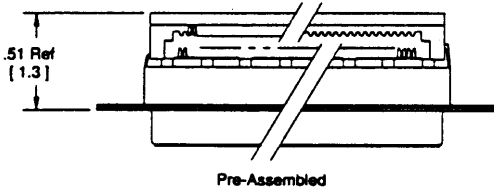
6801 River Place Blvd.
 Austin, TX 78726-9000

D Sub Plug Connector

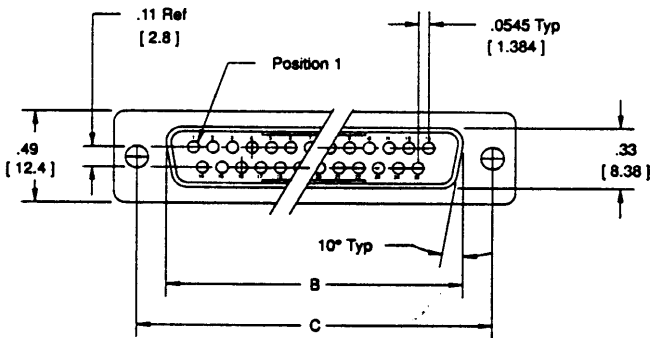
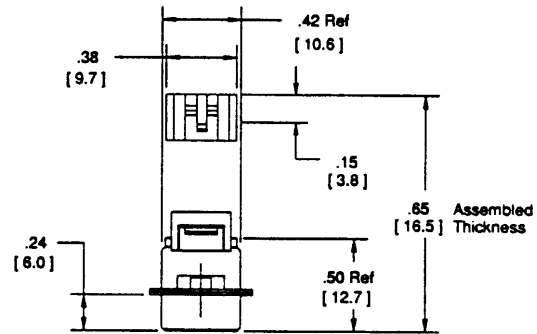
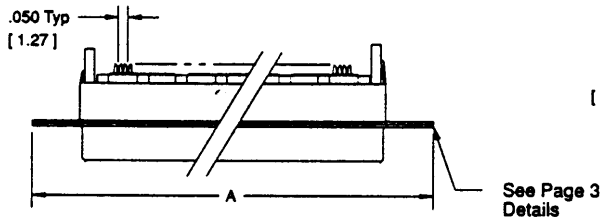
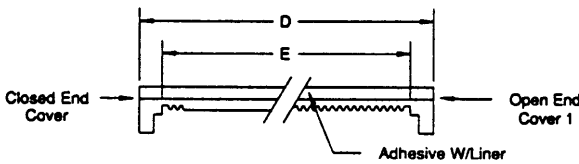
8200 Series

Sheet 2 of 3

Contact Quantity	Dim A	Dim B	Dim C	Dim D	Dim E	Dim F
09	1.21 [30.7]	.67 [17.0]	.98 [25.0]	.66 [16.7]	.49 [12.5]	.70 [17.8]
15	1.54 [39.1]	1.00 [25.4]	1.31 [33.3]	.99 [25.2]	.79 [20.1]	1.03 [26.1]
25	2.09 [53.1]	1.54 [39.1]	1.85 [47.0]	1.53 [39.0]	1.29 [32.8]	1.57 [39.8]
37	2.73 [69.3]	2.18 [55.4]	2.50 [63.5]	2.18 [55.4]	1.89 [48.0]	2.22 [56.3]



Note: Preassembled closed cover on Pin 1 side of connector.

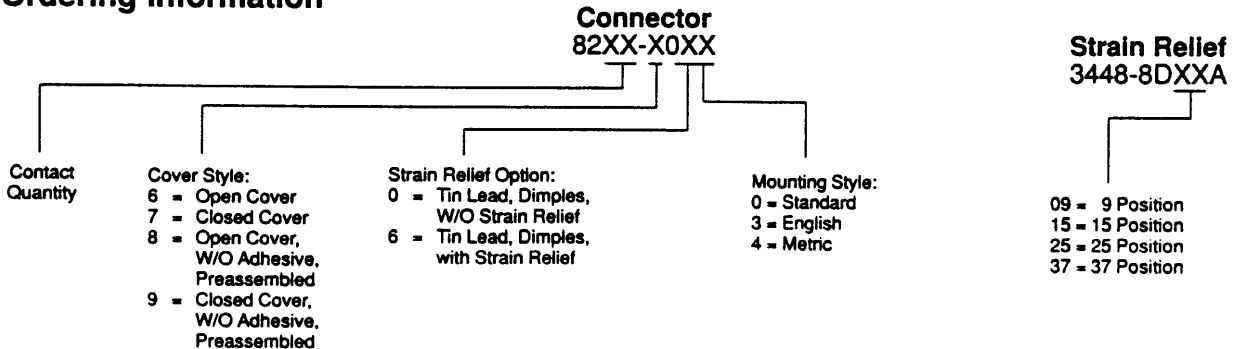


Inch [mm]		
Tolerance Unless Noted		
	.0	.00 .000
Inch	±.1	±.01 ±.005

[] Dimensions for Reference Only

TS-0234-11

Ordering Information

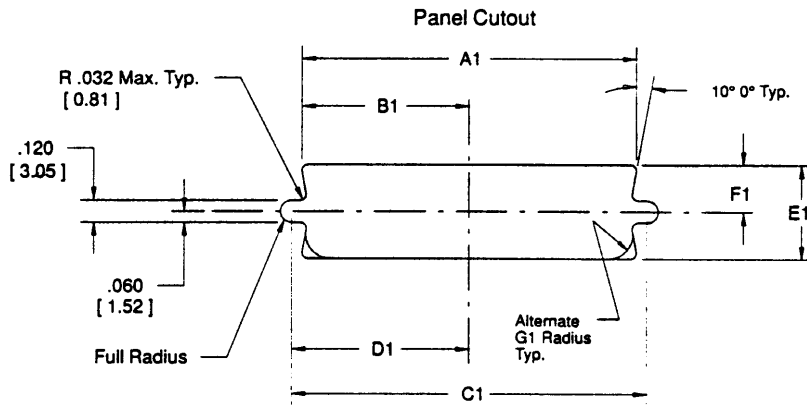


D Sub Plug Connector

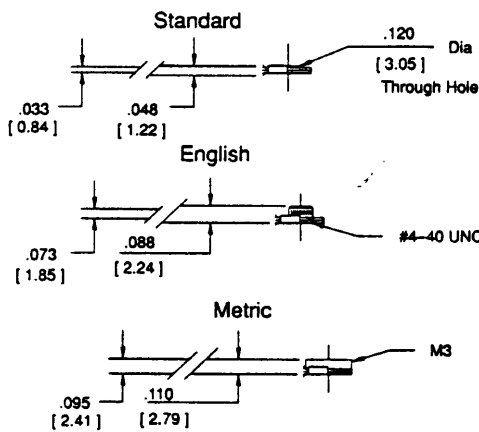
8200 Series

Mounting Method	Contact Quantity	Dim A1	Dim B1	Dim C1	Dim D1	Dim E1	Dim F1	Dim G1
Front	9	.874 [22.20]	.437 [11.10]	.984 [24.99]	.492 [12.50]	.513 [13.03]	.257 [6.53]	.120 [3.05]
	15	1.202 [30.53]	.601 [15.27]	1.312 [33.32]	.656 [16.66]	.513 [13.03]		
	25	1.744 [44.30]	.872 [22.15]	1.852 [47.04]	.926 [23.52]	.513 [13.03]		
	37	2.392 [60.76]	1.196 [30.38]	2.500 [63.50]	1.250 [31.75]	.513 [13.03]		
Rear	9	.806 [20.47]	.403 [10.24]	.984 [24.99]	.492 [12.50]	.449 [11.40]	.225 [5.70]	.120 [3.05]
	15	1.134 [28.80]	.567 [14.40]	1.312 [33.32]	.656 [16.66]	.449 [11.40]		
	25	1.674 [42.52]	.837 [21.26]	1.852 [47.04]	.926 [23.52]	.449 [11.40]		
	37	2.326 [59.08]	1.163 [29.54]	2.500 [63.50]	1.250 [31.75]	.449 [11.40]		

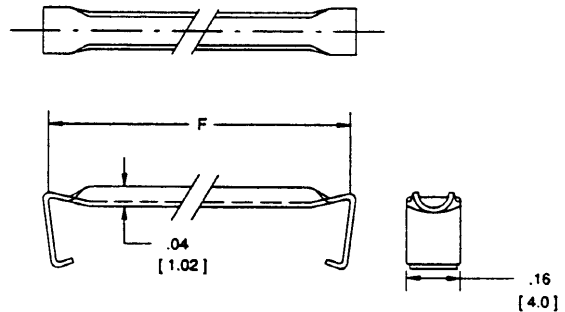
*Front Mount – The connector is mounted in front of the panel.
Rear Mount – The connector is mounted behind the panel.



Mounting Styles



Strain Relief (Order Separately or with Connector)



Sheet 3 of 3

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4

3

2

1

NUMMER 925 366
 VERWENDET FÜR E 92-9802
 WAR NR. -

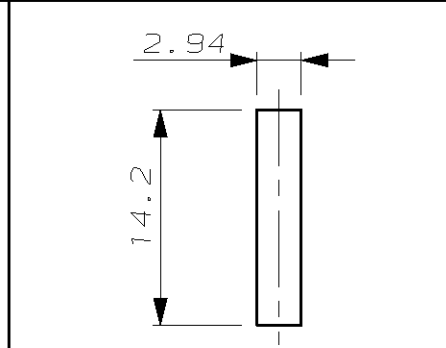
ÄNDERUNGEN DIE DEM TECH-
 NISCHEN FORTSCHRITT DIENEN,
 BEHALTEN WIR UNS VOR

CAD-ORIGINAL
 ZEICHNUNG NICHT ÄNDERN

ZEICHNUNG GESCHÜTZT DURCH
 ©COPYRIGHT 1975
 AMP DEUTSCHLAND GMBH
 ALLE RECHTE VORBEHALTEN

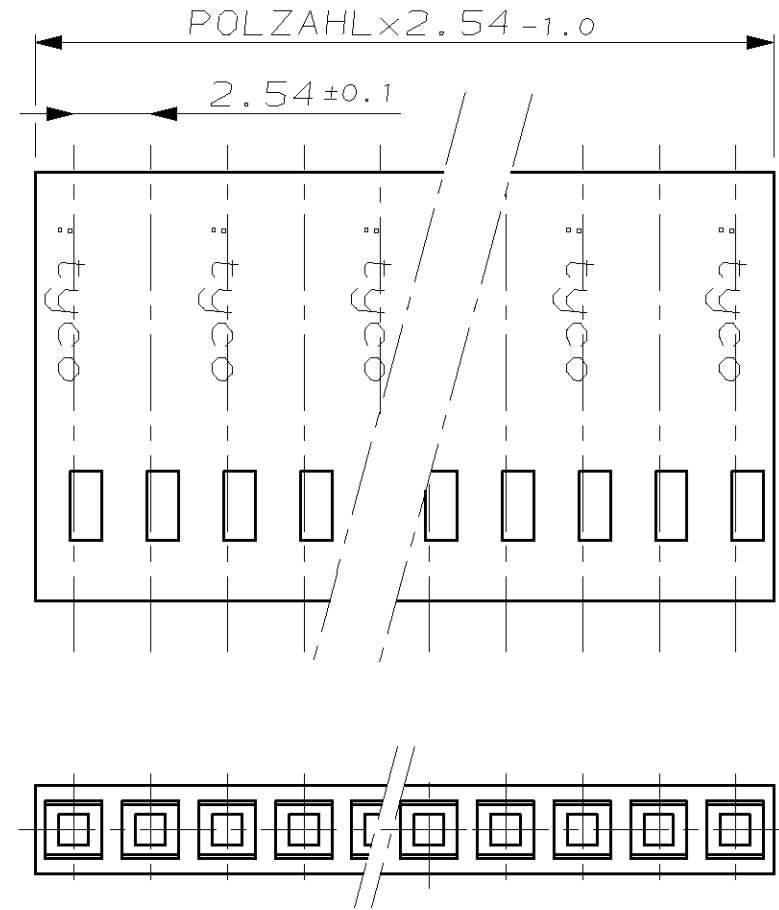
REV.	ÄNDERUNG	DATUM	NAME
A	925368 RELEASED FOR PROD.	01.04.76	DAHLH.
B	POLZ.x2.54-1.0 WAR POLZ.x2.54-0.2	4/76	DAHLH.
E	NEU GEZEICHNET	01.03.77	DAHLH.
F	FARBE GRÜN HINZU	4/77	DAHLH.
K	PA 6.6 WAR PA 13 GV	12.06.78	KREPP
L	-1 ENTFALLEN	06.12.78	KREPP
M	MAß 14.2 WAR 13.5	26.09.84	A.HO
N	ZEICHNUNG NEU ERSTELLT	03.07.89	A.HO
P	ZEICHNUNGS-NR. WAR 925 366-368	20.10.92	A.HO
P1	FELD FÜR GEGENSTECKER/KONTAKT: HINZU	04.08.95	A.HO
R	AMP-Logo durch tyco-Logo ersetzt	08.06.00	A. Zitz
W	Revisionsanpassung an P-Zeichnung	31.07.00	A. Zitz
W1	Zeichnung überarbeitet	24OCT00	A. Zitz

GEGENSTECKER/KONTAKT:
 MATED WITH: 826 629 167 301-4



EINREIHIG

POLZ.	L-0.2	BESTELL-NR.
-	-	-
2	5.08	925 366 -2
3	7.62	-3
4	10.16	-4
5	12.70	-5
6	15.24	-6
7	17.78	-7
8	20.32	-8
9	22.86	-9
10	25.40	1- -0
11	27.94	1- -1
12	30.48	1- -2
13	33.02	1- -3
14	35.56	1- -4
15	38.10	1- -5
16	40.64	1- -6
17	43.18	1- -7
18	45.72	1- -8
19	48.26	1- -9
20	50.80	2- -0
21	53.34	2- -1
22	55.88	2- -2
23	58.42	2- -3
24	60.96	2- -4
25	63.50	2- -5
26	66.04	2- -6
27	68.58	2- -7
28	71.12	2- -8
29	73.66	2- -9
30	76.20	3- -0
31	78.74	3- -1
32	81.28	3- -2
33	83.82	3- -3
34	86.36	3- -4
35	88.90	3- -5
36	91.44	3- -6
37	93.98	3- -7
38	96.52	3- -8
39	99.06	3- -9
40	101.60	4- -0
41	104.14	4- -1
42	106.68	4- -2
43	109.22	4- -3
44	111.76	4- -4
45	114.30	4- -5
46	116.84	4- -6
47	119.38	4- -7
48	121.92	4- -8
49	124.46	4- -9
50	127.00	5- 925 366 -0



		ZEICHNUNG GÜLTIG AB KW. 32/95	
		AMP DEUTSCHLAND G.m.b.H. Langen b.Ffm., West Germany	
		BENENNUNG	
		AMPMODU IV GEHÄUSE, EINREIHIG	
Polyamid			
WERKSTOFF	OBERFLÄCHE	NICHT TOLERIERTE MASSE	FORMAT
	FARBE	± 0.2mm	A3
		± -	ZEICHNUNGS-NR.
			925366
GEZ.	05.12.75	GEPR.	MASSTAB
DAHLHEIMER		KREPP	4:1
		BLATT	REV.
		1 VON 1	W1

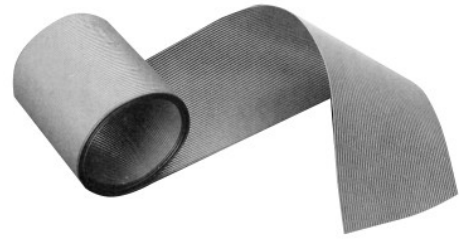
GEZ. 05.12.75 DAHLHEIMER
 GEPR. KREPP

.050" PITCH FLAT CABLE

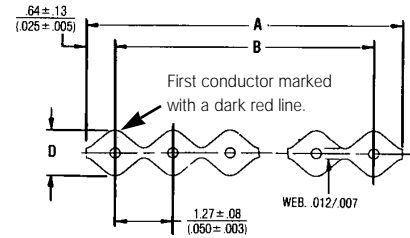
SERIES 171 – 28 AWG (7/36) STRANDED

SERIES 173 – 28 AWG SOLID

SERIES 179 – 26 AWG (7/34) STRANDED



CATALOG SERIES	SPECIFICATIONS						
	171		173		179		
Wire Size AWG	28 Stranded		28 Solid		26 Stranded		
Insulation Material	PVC		PVC		PVC		
Conductor Spacing mm (in)	1.27 (.050)		1.27 (.050)		1.27 (.050)		
Temperature Rating (°C)	105		105		105		
Voltage Rating (RMS)	300		300		300		
Impedance Ohms	100		105		93		
Capacitance pF/M (pF/FT)	46 (14)		44.3 (13.5)		49.5 (15.1)		
Inductance μH/M (μH/FT)	.46 (.14)		.49 (.15)		.43 (.13)		
Velocity of Propagation nS/M (nS/FT)	4.53 (1.38)		4.53 (1.38)		4.43 (1.35)		
Insulation Resistance Ohms/Ft	10 ¹⁰		10 ¹⁰		10 ¹⁰		
Typical Crosstalk Characteristics	Rise Time nSec	3.0	7.0	3.0	7.0	3.0	7.0
	Near End (%)	5.0	3.2	4.8	3.1	5.2	3.8
10FT Sample 1 line driven	Far End (%)	6.7	2.7	7.3	2.9	6.1	2.3
	UL Style No.	2651		2651		2651	



CABLE SERIES	DIMENSIONS IN MM (INCHES)	
	D	
171	.91 (.036)	
173	.91 (.036)	
179	1.02 (.040)	

Ordering Information

28 GAUGE STRANDED	CATALOG NUMBERS		26 GAUGE SOLID	NO. OF POS.	DIMENSIONS IN MM (INCHES)		
	28 GAUGE SOLID				A	B	B TOLERANCE
171-10ED	173-10	—	—	10	12.70 (.500)	11.43 (.450)	± .18 (±.007)
171-12	—	—	—	12	15.24 (.600)	13.97 (.550)	
171-14	173-14	179-14	—	14	17.78 (.700)	16.51 (.650)	
171-15	173-15	—	—	15	19.05 (.750)	17.78 (.700)	± .25 (±.010)
171-16	173-16	—	—	16	20.32 (.800)	19.05 (.750)	
171-20	173-20	—	—	20	25.40 (1.000)	24.13 (.950)	
171-24ED	173-24	179-24	—	24	30.48 (1.200)	29.21 (1.150)	
171-25	173-25	—	—	25	31.75 (1.250)	30.48 (1.200)	
171-26	173-26	—	—	26	33.02 (1.300)	31.75 (1.250)	
171-28	—	—	—	28	35.56 (1.400)	34.29 (1.350)	± .38 (±.015)
171-30ED	—	—	—	30	38.10 (1.500)	36.83 (1.450)	
171-34	173-34	—	—	34	43.18 (1.700)	41.91 (1.650)	
171-36	—	179-36	—	36	45.72 (1.800)	44.45 (1.750)	
171-37	173-37	—	—	37	46.99 (1.850)	45.72 (1.800)	
171-40ED	173-40	—	—	40	50.80 (2.000)	49.53 (1.950)	
171-44	173-44	—	—	44	55.88 (2.200)	54.61 (2.150)	± .38 (±.015)
171-50	173-50	179-50	—	50	63.50 (2.500)	62.23 (2.450)	
171-56	173-56	—	—	56	71.12 (2.800)	69.85 (2.750)	
171-60	173-60	—	—	60	76.20 (3.000)	74.93 (2.950)	
171-64	—	—	—	64	81.28 (3.200)	80.01 (3.150)	