TE connectivity

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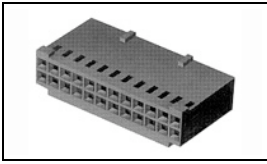
87977-1 Product Details

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87977-1

TE Internal Number: 87977-1

✔ Active

📄 View 3D PDF

.100 AMPMODU Headers, Housings & Contacts

🌿 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Connector
- Housing
- Connector Style = Receptacle
- Contact Type = Socket
- 2.54 mm Centerline

View all Features

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Documentation & Additional Information

Product Drawings:
- CONNECTOR HSG. , MOD IV, CRIMP SNAP-IN, .100 X .100 CL (PDF, English)

Catalog Pages/Data Sheets:
- AMPMODU_INTERCONNECTION_SYSTEM_SECTION5_CONT (PDF, English)

Product Specifications:
- AMPMODU Mod 1/2 Wire to Board Standard Pressure Cont... (PDF, English)

Application Specifications:
- AMPMODU MOD IV, IV1/2, and V Receptacles and Housings (PDF, English)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version S)
- 3D Model (IGES, Version S)
- 3D Model (STEP, Version S)

Additional Information:
- Product Line Information

Related Products:
- Tooling

List all Documents

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Type = Connector
- Connector Type = Housing
- Mating Connector Lock = With
- Connector Series = Mod IV
- Keyed = No
- Flame Retardant = Yes
- Mating Connector Lock Type = Detent Latching

Electrical Characteristics:
- Contact - Rated Current (A) = 3
- Voltage Rating (VAC) = 250
- Termination Resistance (mΩ) = 12
- Insulation Resistance (MΩ) = 5,000
- Dielectric Withstanding Voltage (V) = 750

Termination Features:
- Termination Method to Wire/Cable = Crimp

Body Features:
- Row-to-Row Spacing (mm [in]) = 2.54 [0.100]

Contact Features:
- Contact Type = Socket

Housing Features:
- Connector Style = Receptacle
- Centerline (mm [in]) = 2.54 [0.100]
- Mating Alignment = With
- Mating Alignment Type = Latched
- Housing Color = Black
- UL Flammability Rating = UL 94V-0
- Housing Material = Nylon

Configuration Features:
- Number of Positions = 6
- Number of Rows = 2
- Strain Relief = Without
- Stamped = Yes
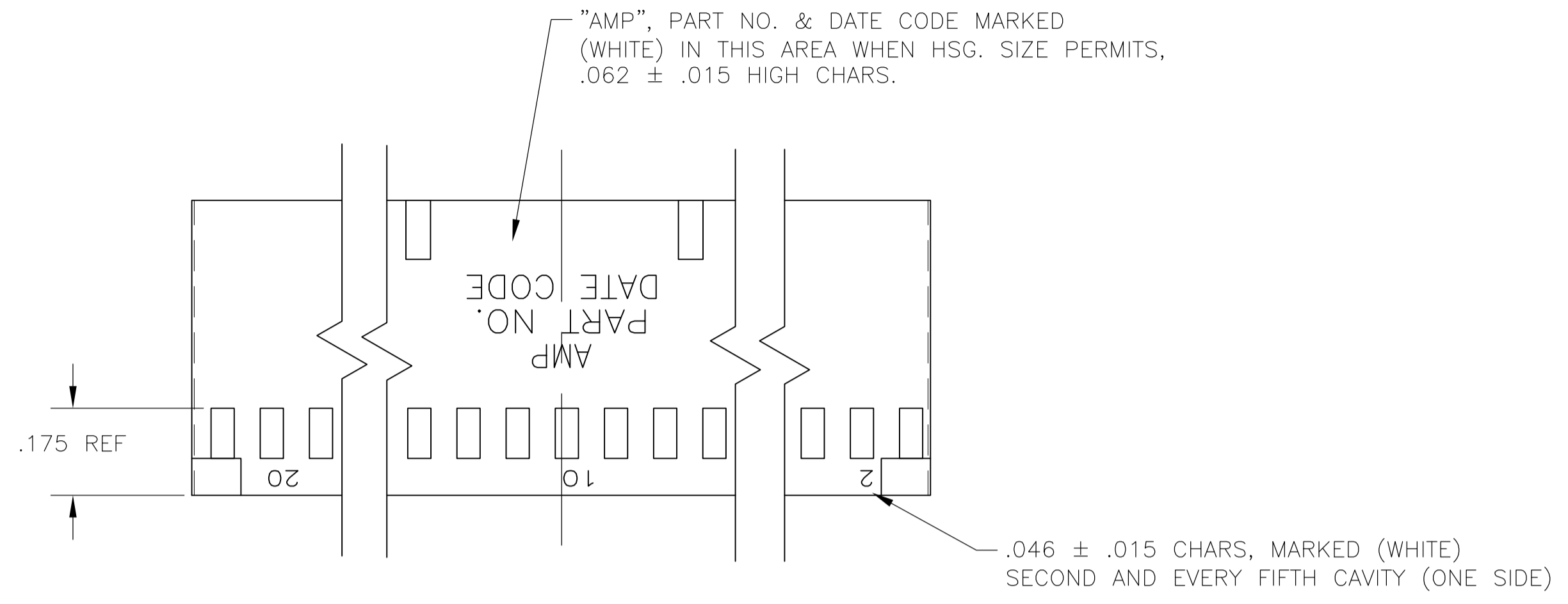- Housing Configuration = Both Ends Closed

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant
- Approved Standards = UL E28476, CSA LR7189

Environmental:
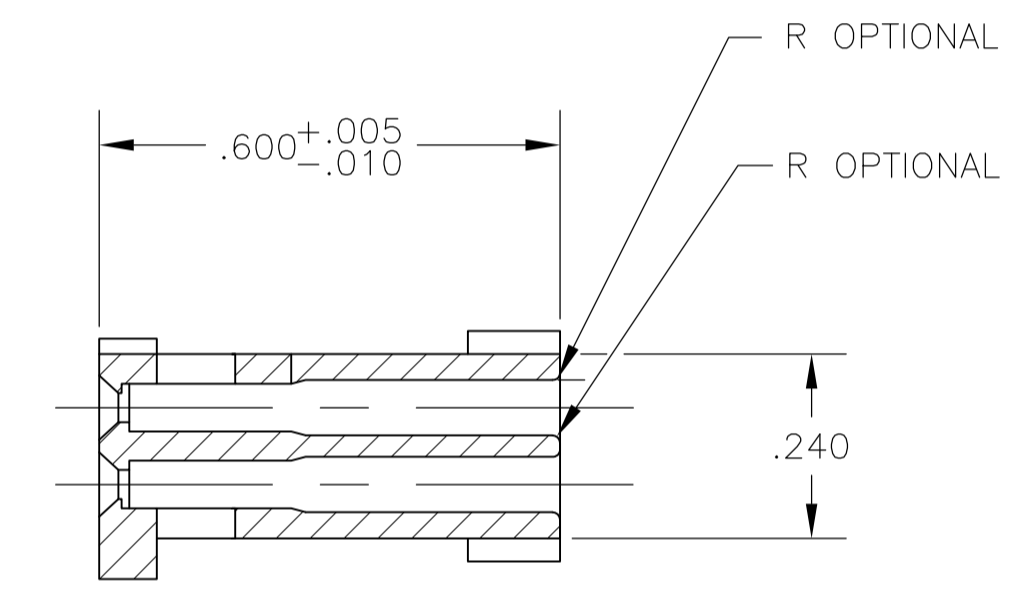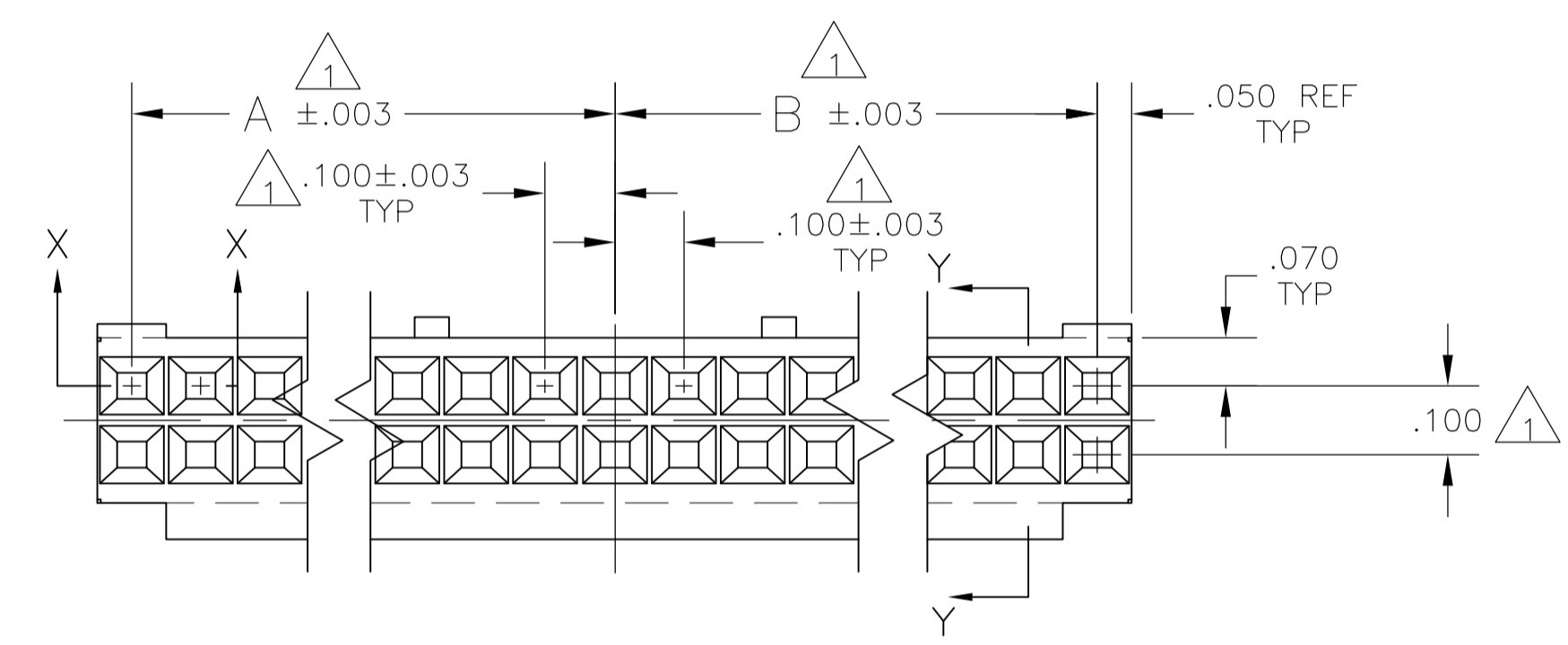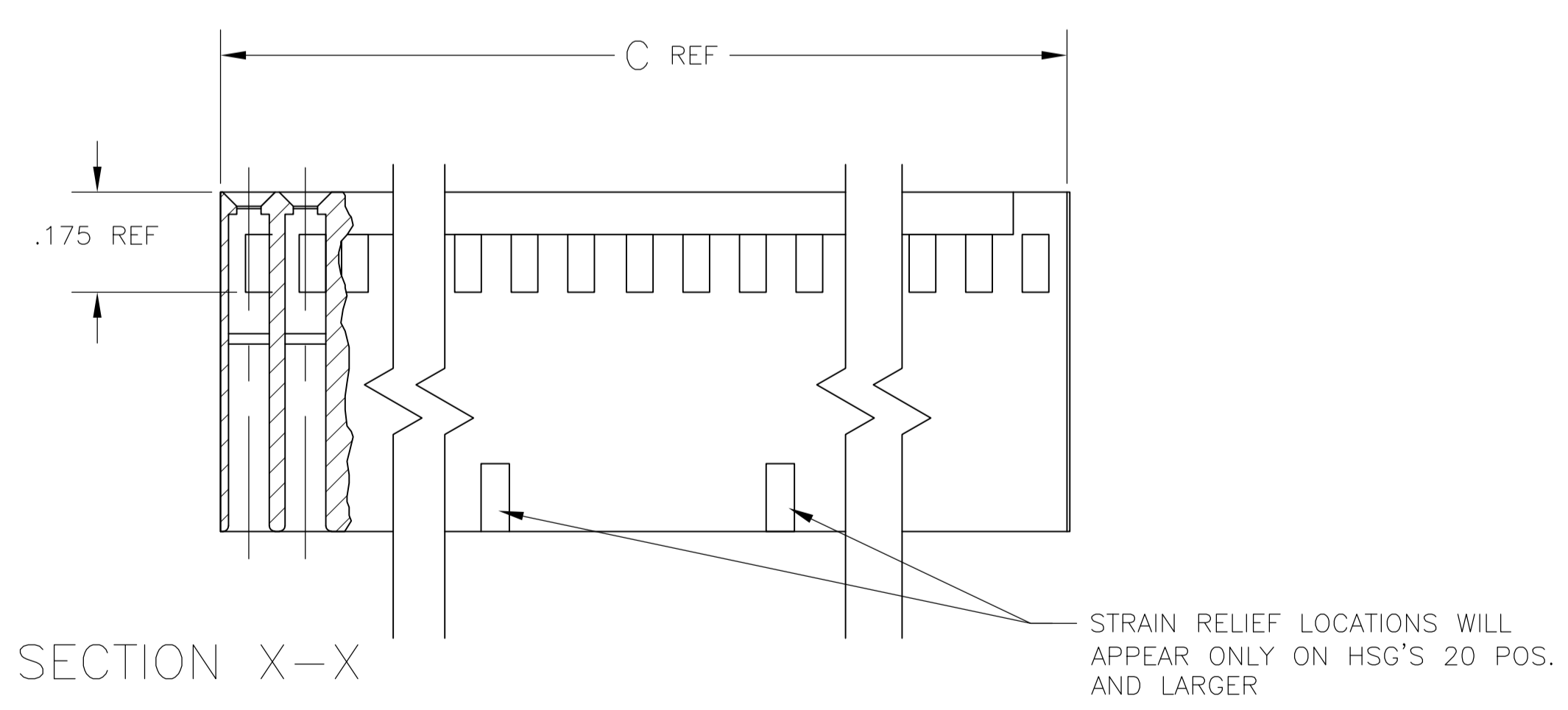- Operating Temperature (°C) = -65 – +105

Other:
- Brand = AMP
- Comment = Strain reliefs are available and may be purchased separately.; Cavity identification, AMP, part number and date code stamped on housing where size permits.

△1 CAVITY LOCATION DIMENSIONS INCREASE IN INCREMENTS OF .100
TOLERANCES ARE NON-CUMULATIVE

2 USE EXTRACTION TOOL 91052-1 TO REMOVE RECEPTACLE CONTACTS.

3 THESE HOUSINGS ARE COMPATIBLE WITH ANY MOD II SHROUDED HEADER

4 HOUSING WILL ACCOMODATE ALL MOD IV, IV.5 AND MOD V CONTACTS.

△5 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

"AMP", PART NO. & DATE CODE MARKED
(WHITE) IN THIS AREA WHEN HSG. SIZE PERMITS,
.062 ± .015 HIGH CHARS.

AMP
PART NO.
DATE CODE

.175 REF

20   10   2

.046 ± .015 CHARS, MARKED (WHITE)
SECOND AND EVERY FIFTH CAVITY (ONE SIDE)

A ±.003   B ±.003   .050 REF TYP
△1 .100±.003 TYP   △1 .100±.003 TYP
X   Y   .070 TYP
X   Y   .100 △1

SECTION X-X

C REF
.175 REF

STRAIN RELIEF LOCATIONS WILL
APPEAR ONLY ON HSG'S 20 POS.
AND LARGER

.600 +.005 −.010   R OPTIONAL
R OPTIONAL
.240

SECTION Y-Y

C	B	A	POS	PART NUMBER (UNMARKED)	NUMBER PART (MARKED)
3.200	1.500	1.600	64	6-87977-2	6-87977-1
2.900	1.400	1.400	58	6-87977-0	5-87977-9
2.800	1.300	1.400	56	5-87977-8	5-87977-7
2.400	1.100	1.200	48	5-87977-6	5-87977-5
3.600	1.700	1.800	72	5-87977-4	2-87977-7
3.500	1.700	1.700	70	5-87977-3	2-87977-6
3.300	1.600	1.600	66	5-87977-2	2-87977-5
3.000	1.400	1.500	60	5-87977-1	2-87977-4
2.700	1.300	1.300	54	5-87977-0	2-87977-3
2.600	1.200	1.300	52	4-87977-9	2-87977-2
2.500	1.200	1.200	50	4-87977-8	2-87977-1
2.200	1.000	1.100	44	4-87977-7	2-87977-0
2.100	1.000	1.000	42	4-87977-6	1-87977-9
2.000	.900	1.000	40	4-87977-5	1-87977-8
1.900	.900	.900	38	4-87977-4	1-87977-7
1.800	.800	.900	36	4-87977-3	1-87977-6
1.700	.800	.800	34	4-87977-2	1-87977-5
1.600	.700	.800	32	4-87977-1	1-87977-4
1.500	.700	.700	30	4-87977-0	1-87977-3
1.400	.600	.700	28	3-87977-9	1-87977-2
1.300	.600	.600	26	3-87977-8	1-87977-1
1.200	.500	.600	24	3-87977-7	1-87977-0
1.100	.500	.500	22	3-87977-6	87977-9
1.000	.400	.500	20	3-87977-5	87977-8
.900	.400	.400	18	3-87977-4	87977-7
.800	.300	.400	16	3-87977-3	87977-6
.700	.300	.300	14	3-87977-2	87977-5
.600	.200	.300	12	3-87977-1	87977-4
.500	.200	.200	10	3-87977-0	87977-3
.400	.100	.200	8	2-87977-9	87977-2
.300	.100	.100	6	2-87977-8	87977-1