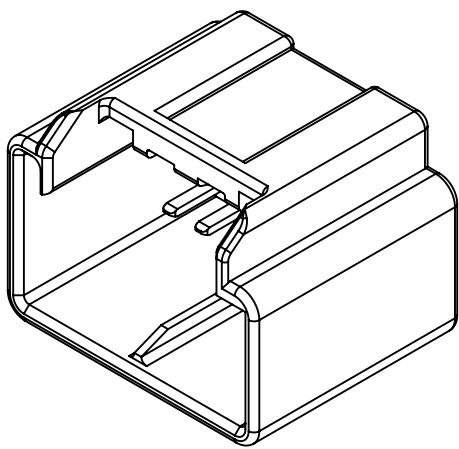


The floor plan shows a rectangular building with a central corridor. On the left side, there are rooms numbered 1, 7, and 12. On the right side, there are rooms numbered 6 and 12. The plan also shows a central entrance and a small room at the bottom center.

Figure 1 is a plan view of the test cell. It shows a rectangular layout with numbered points 1 through 12. Dimensions are indicated at the bottom: 7.75 and 9.25.

The "PACKAGING VIEW" shows the PCB layout with components 1 through 12. The layout is rectangular with a central area containing components 1 through 12. Components 1 and 7 are on the left, 6 and 12 are on the right, and components 2 through 5 and 8 through 11 are in the center. The layout includes a top edge with a 1.5 MIN dimension, a bottom edge with a 1 MIN dimension, and side edges with 0.5 MIN dimensions. The layout is filled with diagonal hatching.



ISOMETRIC VIEW
2:1

NOTICE:
This drawing, or portions of it are controlled by the Electrical
Wiring Components Application Partnership(EWCAP) a
subgroup of the United States Council for Automotive
Research LLC (USCAR LLC).

USCAR is an LLC consisting of members from FCA US LLC, Ford Motor Company and GM Corporation.

Any change to a EWCAP controlled portion of this drawing, including a revision record change must be approved, in writing, by the responsible EWCAP representative from each USCAR member company. Each EWCAP representative authorized to sign for his or her member company is responsible for obtaining all necessary approvals within that company prior to signing for the approval of the change.

EWCAP expressly prohibits any party from changing either any EWCAP controlled portion of this drawing or any associated tooling before receiving approval, signed by the authorized representatives, of the USCAR member companies. Reference to the signed change notice must be entered in the drawing control column.

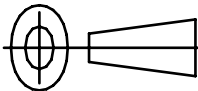
NOTES:

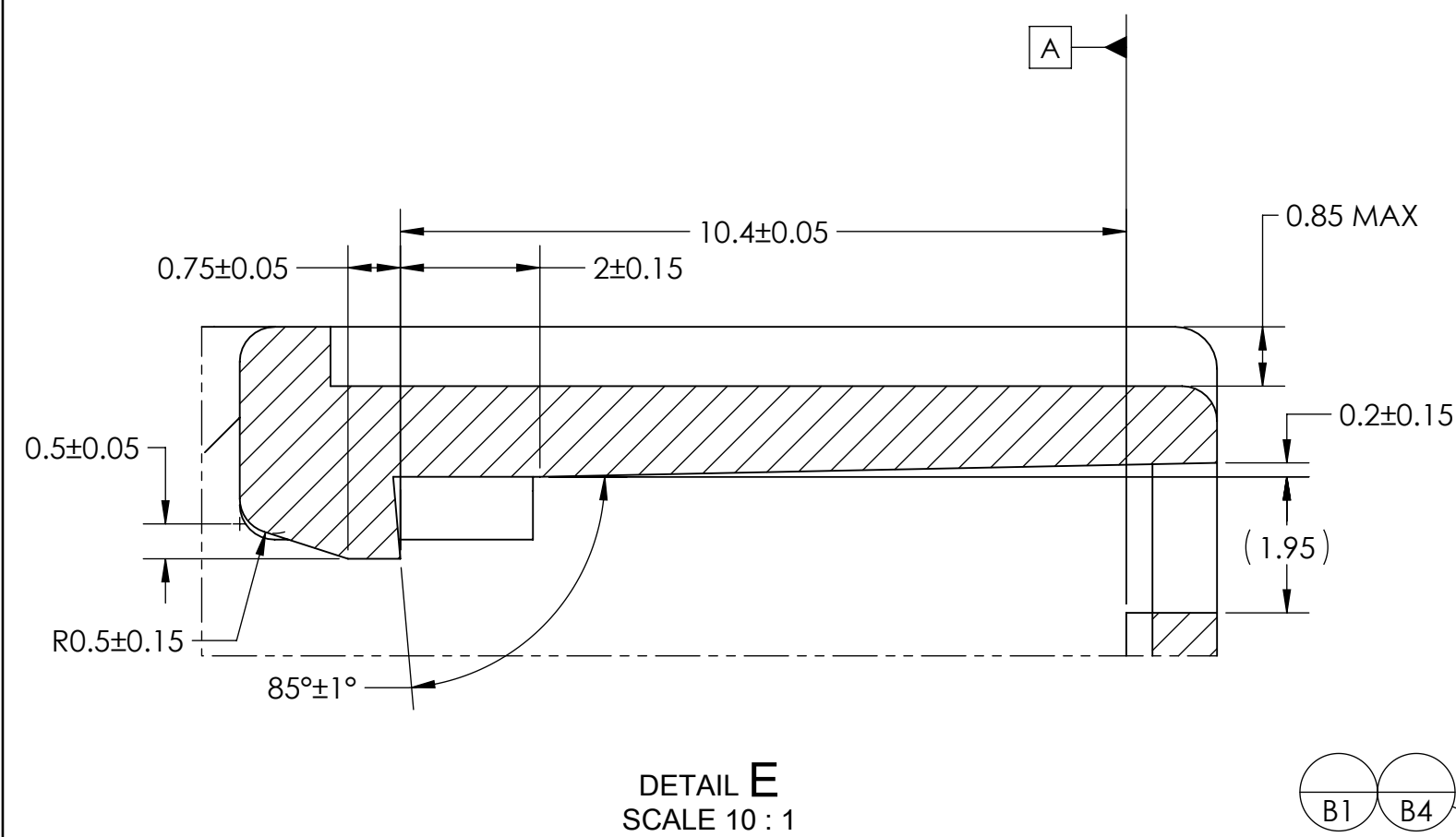
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M.
2. 0.25 MAX RADII ON ALL CORNERS SHOWN SHARP.
3. ALL UNSPECIFIED RADII 0.50 MAX.
4. STANDARD COLORS FOR POLARIZATION(SEE CHART IN LEFT LOWER CORNER OF THE DRAWING SHEET.)
5. REFER TO "SAE/USCAR 12 CONNECTOR DESIGN CRITERIA" FOR ADDITIONAL REQUIREMENTS.
6. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE WITHIN TOLERANCE.
7.  SYMBOL INDICATES DRAFT DIRECTION
8. FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS SEE EWCAP-001 TERMINAL 120-T002
9. TO CLAIM USCAR COMPLIANCE, PARTS PRODUCED TO THIS FOOTPRINT DRAWING MUST BE TESTED TO AND MEET THE REQUIREMENTS OF SAE/USCAR 2.
10.  DENOTES DIMENSION THAT MAY BE UTILIZED TO MONITOR PART QUALITY.
11. WHEN USING SILVER PLATED TERMINALS, THE SILVER PLATING MUST STOP A MINIMUM OF 1mm FROM THE HEADER PLASTIC
12. BACK ANGLE IS REQUIRED TO MEET THE CONNECTOR RETENTION FORCE SPECIFICATION.
13. KEYING OPTION "A" SHOWN IN GENERAL VIEWS.
14. MATERIAL FLEXURAL MODULUS MUST BE GREATER THAN OR EQUAL TO 4500 MPa.

120-U-012-2-A01	A	BLACK
120-U-012-2-B01	B	LT. GRAY
120-U-012-2-C01	C	DK. GRAY
120-U-012-2-D01	D	BLACK
EWCAP PART NUMBER	POLARITY	MATING CONNECTOR COLOR



120-U-012-2-Z01

-	A	RELEASED	11-16-16	JM	JG
CHANGE SERIAL NUMBER	LET	REVISION RECORD	DATE	DWN	CHK
TOLERANCES (UNLESS OTHERWISE SPECIFIED)			THIRD ANGLE PROJECTION 		
DIMENSIONS ARE IN MILLIMETERS					
ANGLES ± 0° 30'					
USCAR-EWCAP					
SCALE	5:1	DRAWN BY	J.MILLER	CHECKED BY	J.GAGNON
			DATE	11-16-16	
TITLE 12 WAY 2X6 UNSEALED INTERFACE 1.2mm CONNECTORS					
SHEET	DRAWING NUMBER		SIZE	DO NOT SCALE DRAWING	REVISION LEVEL
1 of 2	120-U-012-2-Z01		A2	COMPUTER AIDED DRAWING	A



Technical drawing of a mechanical part, likely a connector or bracket, showing top and side views with detailed dimensions and feature callouts.

Top View Dimensions:

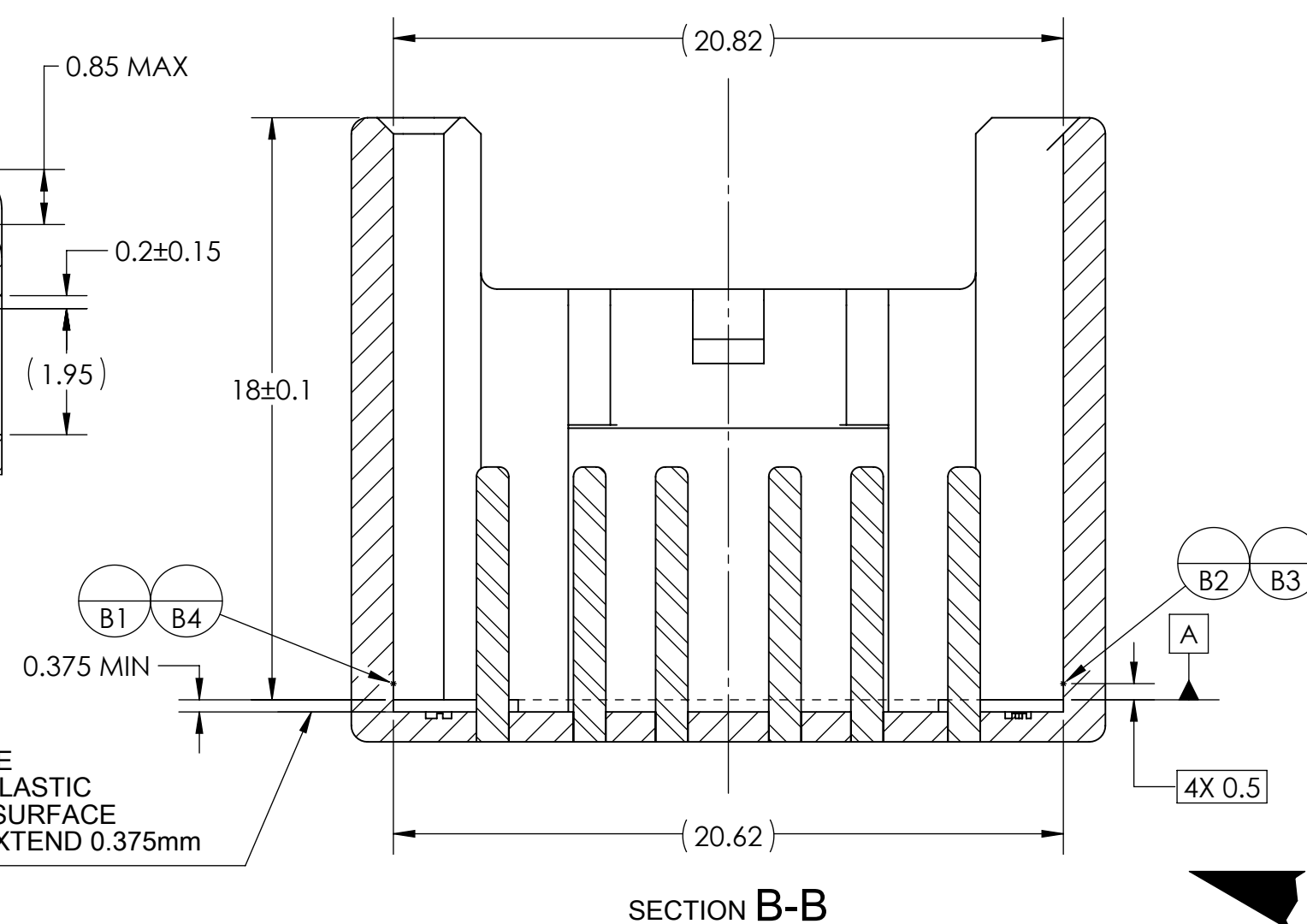
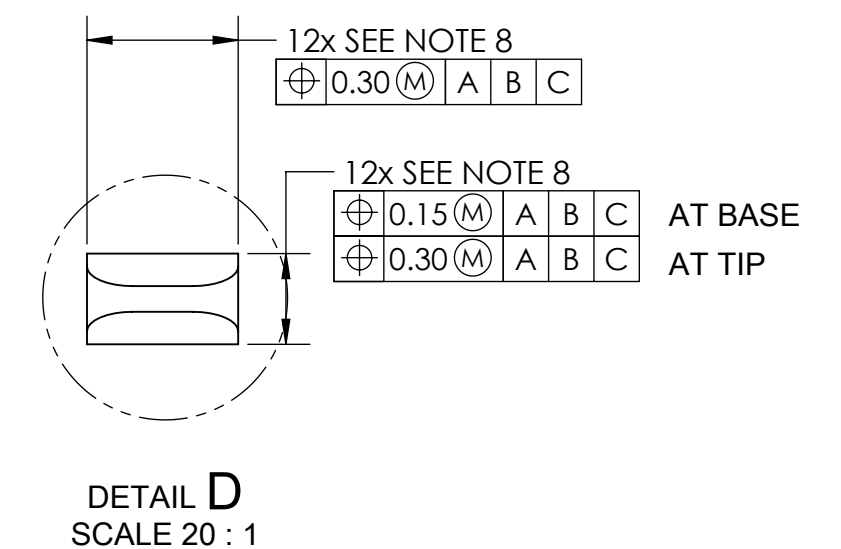
- Overall width: 20.72
- Overall height: 15.3
- Internal width: 2X 13 (10.4)
- Top edge features: 9.9±0.1, 7.3±0.1, 2.2±0.1
- Top edge tolerances: $\oplus 0.1 \text{ (M)}$ A B C
- Top edge radii: 3X R 0.5, 2X R 0.3
- Top edge callouts: TERMINAL "1", R1±0.15
- Top edge dimensions: 2X 3.5, 12.15, 2X 2.5
- Top edge tolerance: 1.3±0.15 TYP
- Top edge callouts: A1, B1, B4
- Top edge dimensions: 2X 6.35, 8X 2.975, 2X 14.15, 2X 10
- Top edge callouts: B2, B3
- Top edge dimensions: 5X R 0.5, 8X 1.425
- Top edge callouts: A2, B3
- Top edge dimensions: 1.5±0.05
- Top edge callouts: C

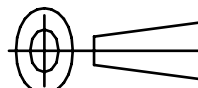
Side View Dimensions:

- Overall width: 8.8
- Overall height: 8.8
- Internal width: 4X 1.75, 4X 4.29, 2X 5.5, 4X 7.29
- Internal height: 0.2
- Internal callouts: 0.65±0.05, $\oplus 0.05 \text{ (M)}$ A B C
- Internal callouts: CENTERLINE ESTABLISHED BY DATUM B
- Internal callouts: A3, C2
- Internal callouts: TERMINAL "7", TERMINAL "12"
- Internal callouts: A4, C1
- Internal callouts: X, Y

Feature Callouts:

- 2X R0.2 MAX
- 4X R0.15 MAX
- R1±0.15
- TERMINAL "6"
- 5X R 0.5
- 2X 6.35
- 8X 2.975
- 2X 14.15
- 2X 10
- 8X 1.425
- 1.5±0.05
- C
- 0.65±0.05
- $\oplus 0.05 \text{ (M)}$ A B C
- CENTERLINE ESTABLISHED BY DATUM B
- A3
- C2
- TERMINAL "12"
- A4
- C1
- TERMINAL "7"
- 1.3±0.15 TYP
- 2X 2.5
- B4
- 12.15
- B1
- 2X 3.5
- A1
- TERMINAL "1"
- 2X R 0.3
- 3X R 0.5
- R1±0.15
- 2.2±0.1
- $\oplus 0.1 \text{ (M)}$ A B C
- 7.3±0.1
- $\oplus 0.1 \text{ (M)}$ A B C
- 9.9±0.1
- $\oplus 0.1 \text{ (M)}$ A B C
- 15.3
- 20.72

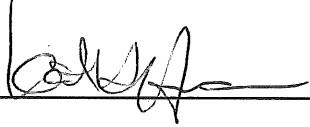


TOLERANCES (UNLESS OTHERWISE SPECIFIED)				THIRD ANGLE PROJECTION 			
DIMENSIONS ARE IN MILLIMETERS							
ANGLES $\pm 0^{\circ} 30'$							
USCAR-EWCAP							
SCALE	5:1	DRAWN BY	J.MILLER	CHECKED BY	J.GAGNON	DATE	11-16-16
TITLE		12 WAY 2X6 UNSEALED INTERFACE 1.2mm CONNECTORS					
SHEET	DRAWING NUMBER			SIZE	DO NOT SCALE DRAWING		REVISION LEVEL
2 of 2	120-U-012-2-Z01			A2	COMPUTER AIDED DRAWING		A

**EWCAP Legal Notice
(Required on all EWCAP Drawings)
Revision 1-16-2015**

NOTICE

EWCAP has selected common dimensions for the connector(s) depicted and described herein (listed below). Further, EWCAP has selected for publication this drawing (and its companion electronic model) prepared by Yazaki North America, Inc. as representative of a connector having these dimensions. In exchange for the consideration of the selection of this drawing for publication (including posting on EWCAP's web site) and other good and valuable consideration flowing from this selection, Yazaki North America, Inc. hereby agrees on behalf of itself and its successors and assigns, with respect to any copyrights it may have in this drawing as well as any patent rights it may have in the connector illustrated in this drawing, not to enforce such copyrights and patents against any person or entity on account of their activities to make, have made, use and sell the connector illustrated in this drawing for vehicular applications. The term "connector" as used in this paragraph is limited solely to the structure specifically illustrated in this drawing.

Signed  for Yazaki North America, Inc. Date 11/16/16

Name and title of signer: Kent Hoffman – Vice President, Component Business Unit

The person signing this Agreement represents and warrants that (1) he or she is duly authorized and has legal capacity to execute and deliver this Agreement on behalf of Yazaki North America, Inc., (2) the execution and delivery of this Agreement and the performance of Yazaki North America, Inc. pursuant to the terms outlined above have been duly authorized and that this Agreement is a valid and legal agreement binding on Yazaki North America, Inc. and enforceable in accordance with its terms.

No warranties or indemnities of any kind are made or implied by Yazaki North America, Inc. or EWCAP. In particular there are no express or implied warranties of fitness for a particular purpose, merchantability, non-infringement or any other warranty of any kind. In addition, there are no express or implied warranties or indemnities of any kind relating to third party claims arising under the intellectual property laws of any country. Anyone using the information in this drawing does so at their own risk.

Applicable EWCAP Drawing Numbers:
120-U-012-2-Z01

