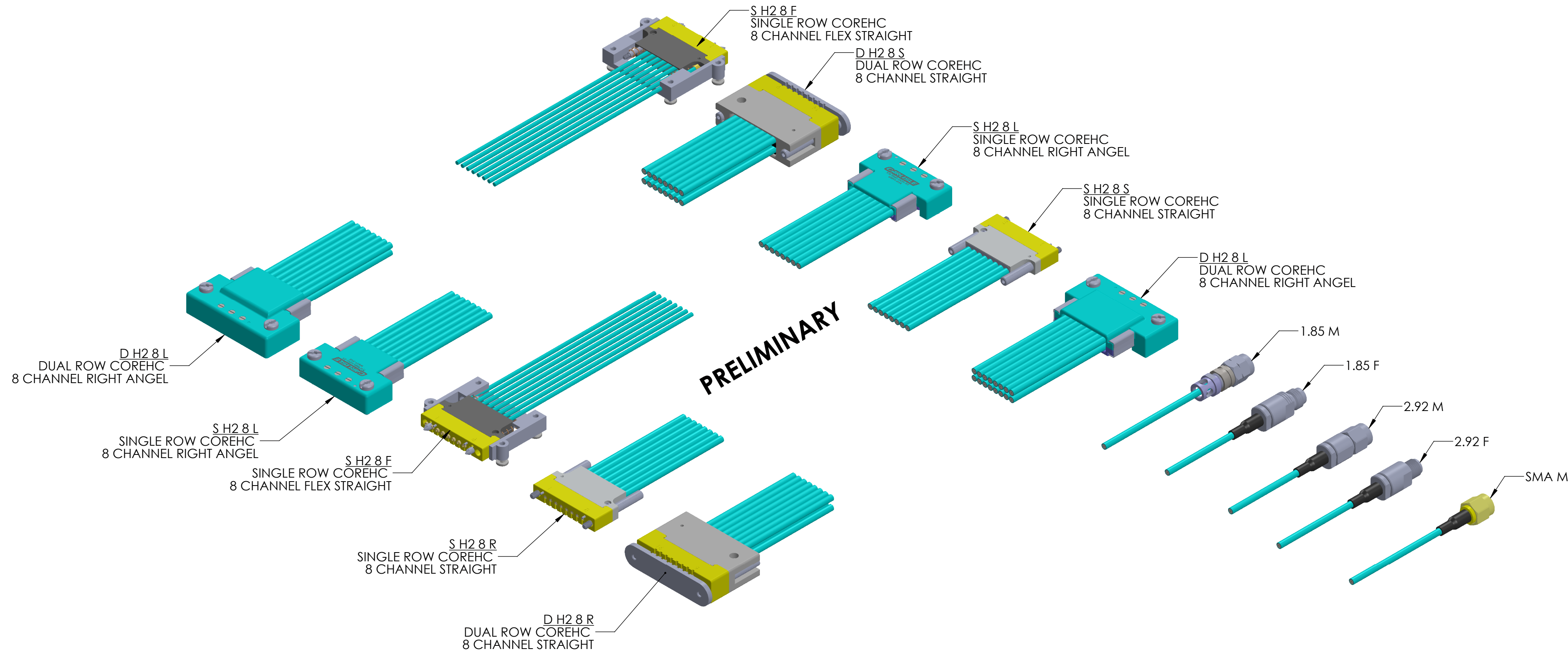


REVISION HISTORY					
ECO	REV.	DESCRIPTION	DRAWN BY	APPROVAL	DATE
	00	INITIAL RELEASE	R BEDIENT		3/27/2024

COREHC 2.5mm STD OFFERING



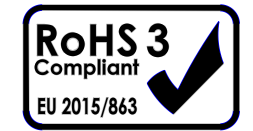
PRELIMINARY

TM 4S X S H2 8 L H2 R 050 C

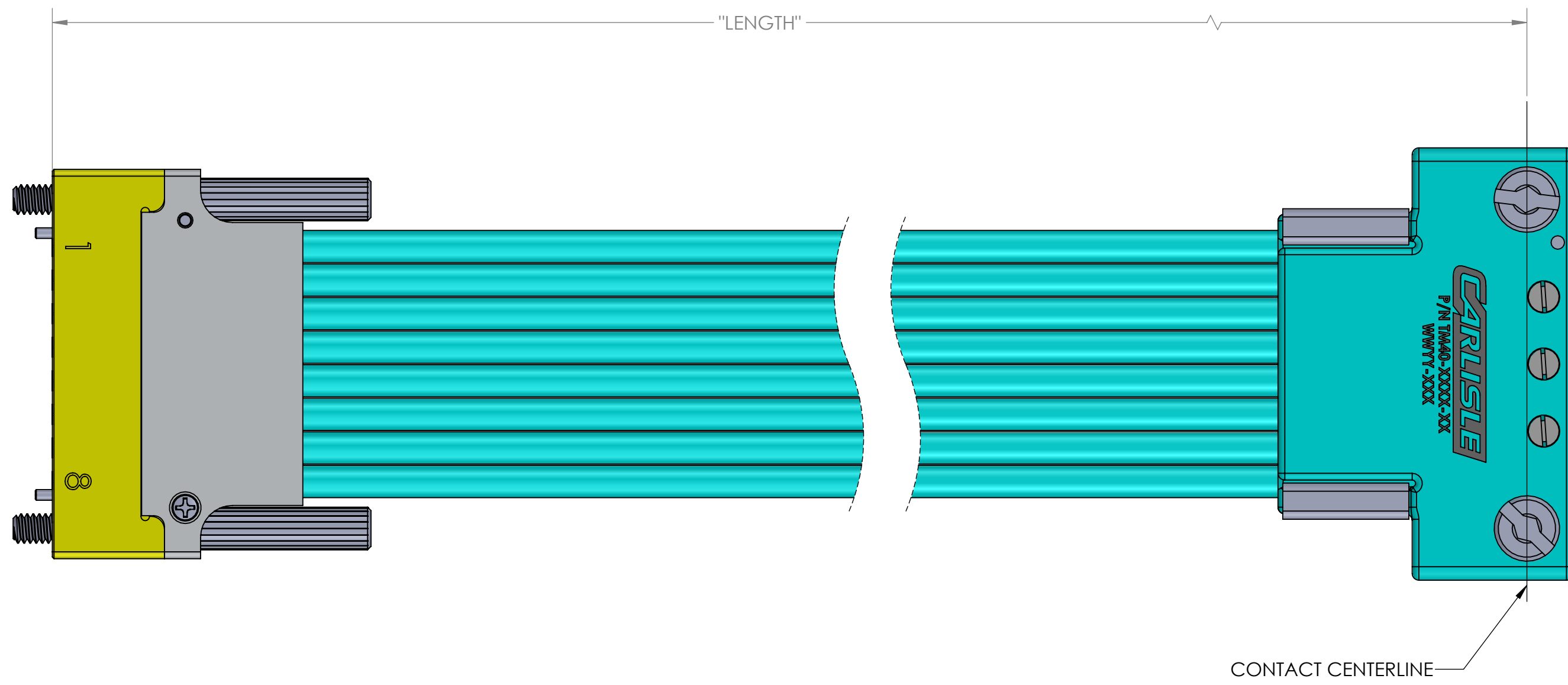
- CABLE CODE
4S-0.047"
7S-0.079"
- STRAIN RELIEF
S- HEATSHRINK SHORT
M-HEATSHRINK MEDIUM
L-HEATSHRINK LONG
X-NO HEATSHRINK
- NO. OF ROWS
S- SINGLE ROW
D-DOUBLE ROW
- CABLE END A
- CABLE END B
- CONNECTOR ORIENTATION
R-RUGGED STRAIGHT
F-FLEX STRAIGHT
L-RT ANGLE
- # OF CHANLES PER ROW
2, 4, 6, 8, 10
- CONNECTOR TYPE
H2-COREHC CPW
T2-COREHC STRIPLINE
- LENGTH (cm)
050=500mm
100=1000mm
....
- PHASE MATCHING
C ± 2ps (PAIR) (AS STANDARD)
D ± 1ps (PAIR)
E ± 0.5ps (PAIR)
F ± 2ps (LOT)
G ± 1ps (LOT)
H ± 0.5ps (LOT)

- FOOTPRINTS...
TM13-0236-XX - DUAL ROW STRIPLINE
TM13-0240-XX - DUAL ROW CPW
TM13-0239-XX - SINGLE ROW STRIPLINE
TM13-0238-XX - SINGLE ROW CPW

NOTES: UNLESS OTHERWISE SPECIFIED...
THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO CARLISLE, INC. AND SHALL IN NO WAY BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WHEN SUCH USER POSSESSES DIRECT, WRITTEN AUTHORIZATION FROM CARLISLE, INC.

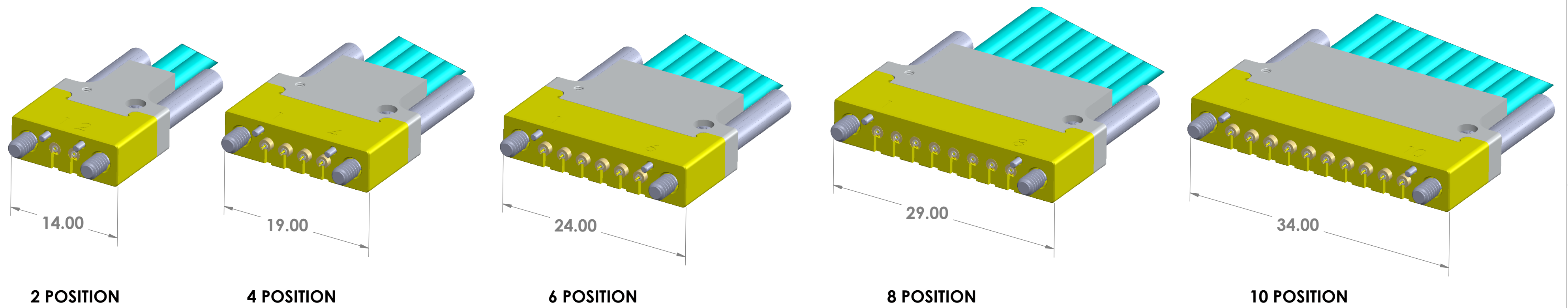


DIMENSIONS ARE IN MILLIMETERS/INCHES ± TOLERANCES UNLESS OTHERWISE NOTED				THIRD ANGLE PROJECTION							
.XXX	.XXXX	ANGLE	FRACTIONS			CORE HC 2.5mm CABLE BUILDER ASSY					
0.076 [0.003]	0.013 [0.0005]	0.5		DESIGN ENGR: R BEDIENT	03/26/2024	DESIGNED BY: R BEDIENT	03/26/2024	SIZE: C	CAGE CODE: 7M294	CARLISLE NUMBER: XXXXXX	REV: 00
NEXT ASSY.		USED ON		QUALITY:		SCALE: 1:1	DO NOT SCALE DRAWING		1 OF 7		
APPLICATION				MFG:							



CORE HC 2.5mm CABLE
BUILDER ASSY

SIZE C	CAGE CODE 7M294	DRAWING NUMBER XXXXXX	REV 00
SCALE: 3:1		PART NUMBER: XXXXXX	2 OF 7



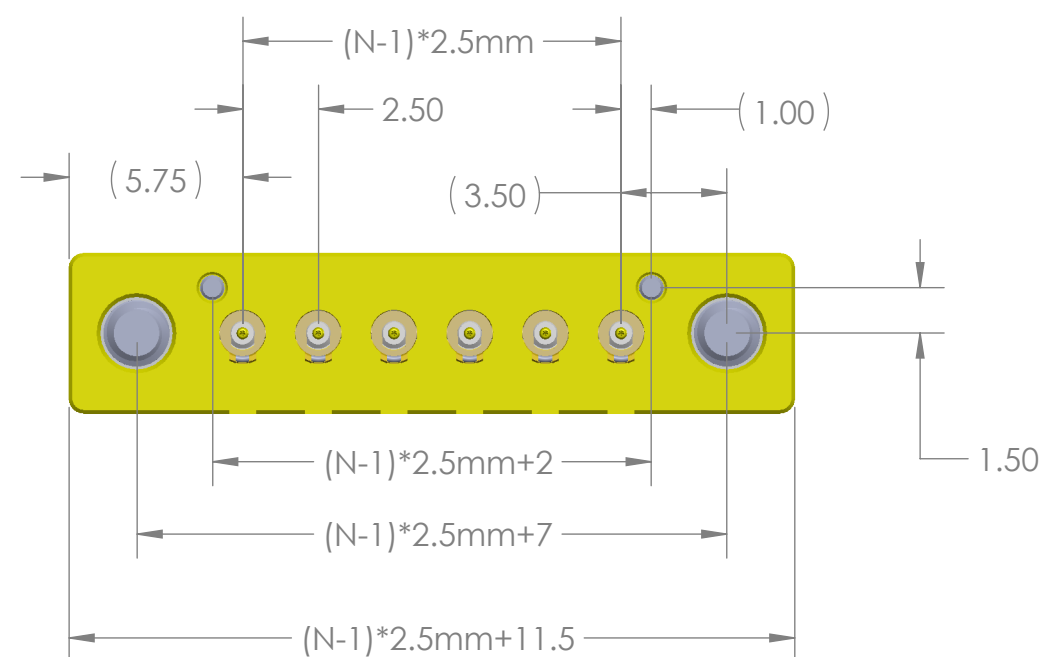
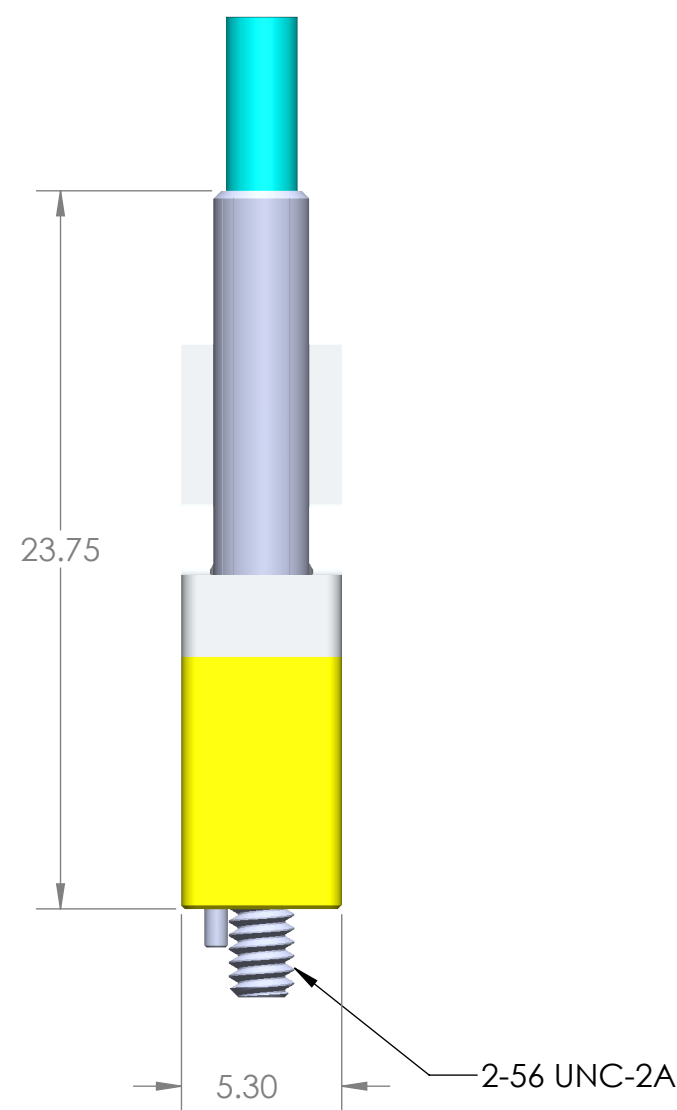
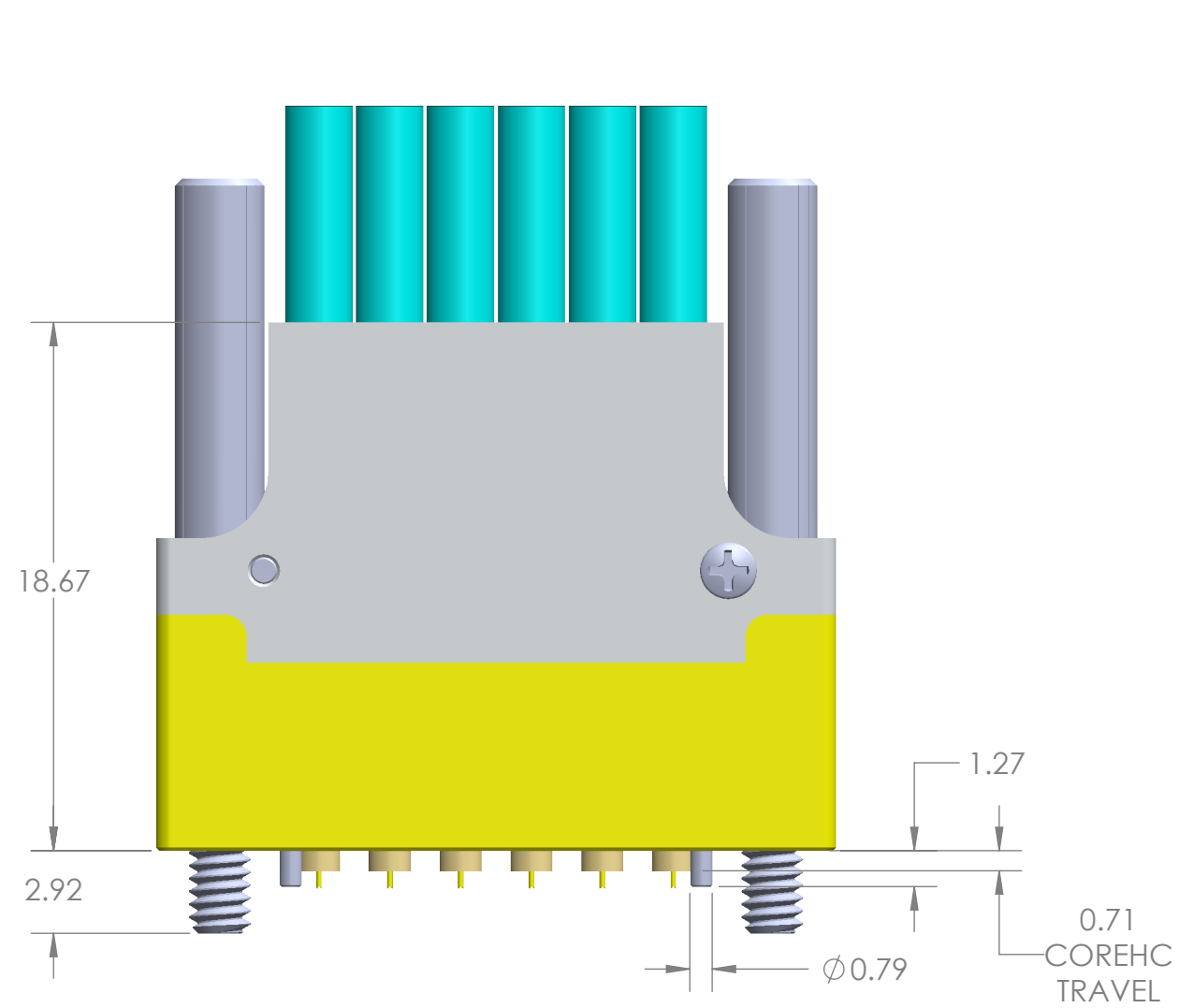
2 POSITION

4 POSITION

6 POSITION

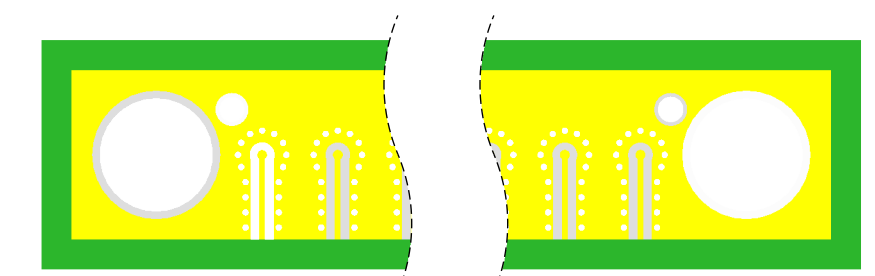
8 POSITION

10 POSITION

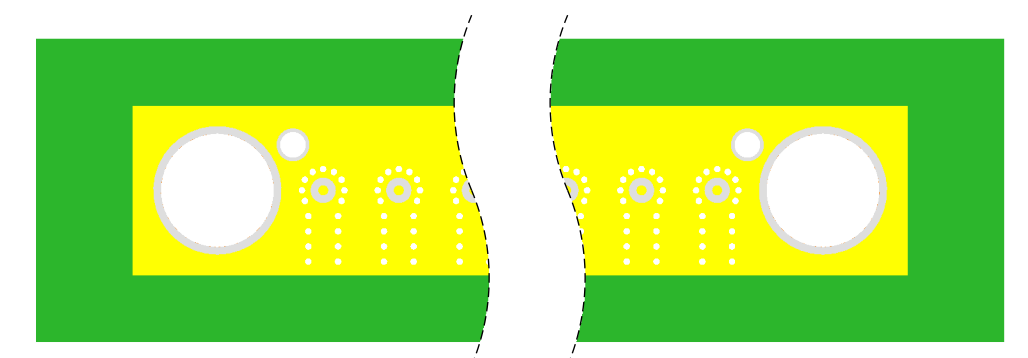


S H2 X R
SINGLE ROW COREHC
X CHANNELS STRAIGHT

<p>MATERIAL(S): Housing body: Brass Alloy, UNS No. C36000 PER ASTM B-16 Top body: 6061-T651 Aluminum Alloy Core HC2 connector: BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze Spring Pin: Brass Alloy C3604B Ground Slider & Nut: Brass Alloy C3604B Insulator: TPX / PTFE Dielectric: Ultem/ TPX Spring: Music Wire Dowel Pin, Screw: Stainless Steel. Cable: TM20-7S</p>	<p>ELECTRICAL(S): Impedance: 50 Ohms Nominal Frequency Range: DC to 65 GHz VSWR: 1.50:1 DC to 26 GHz 1.78:1 26 to 40 GHz 2.10:1 40 to 65 GHz Insertion Loss: 2.00 dB DC to 26 GHz 2.64 dB 26 to 40 GHz 3.75 dB 40 to 65 GHz Working Voltage: 335 Vrms max @ Sea Level Test Voltage: 500 Vrms Insulation Resistance: 5000 MegOhms min. Contact Current: 1A DC max. Contact Resistance: Center Contact: 100 m Ω Phase: Matched In Pairs : ±1.0 pS.</p>
<p>MECHANICAL(S): Mating Characteristics: 1.85 Interface per MIL-STD-348 CORE HC2 Interface per CarlisleIT Force to Engage: 1.85: 2 In-lbs max CoreHC2 (Individual): .5 Lbs Typ. Connector Durability: 1.85: 500 Cycles @ 12 cycles/min. max CoreHC2: 20,000 Cycles @ 12 cycles/min. max Permeability: Less than 2.0 μ. Coupling Proof Torque: 1.85: 15 in-lb</p>	<p>ENVIRONMENTAL(S): Temperature Range: -65°C to +150°C Thermal Shock: MIL-STD-202, Method 107, Test Condition F Moisture Resistance: MIL-STD-202, Method 106, Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity. Corrosion: MIL-STD-202, Method 101, Test Condition C Vibration: MIL-STD-202, Method 204, Test Condition A, except 5g Peak Shock: MIL-STD-202, Method 213, Test Condition I, except 10g Peak</p>



SEE TM13-0238-XX - SINGLE ROW CPW

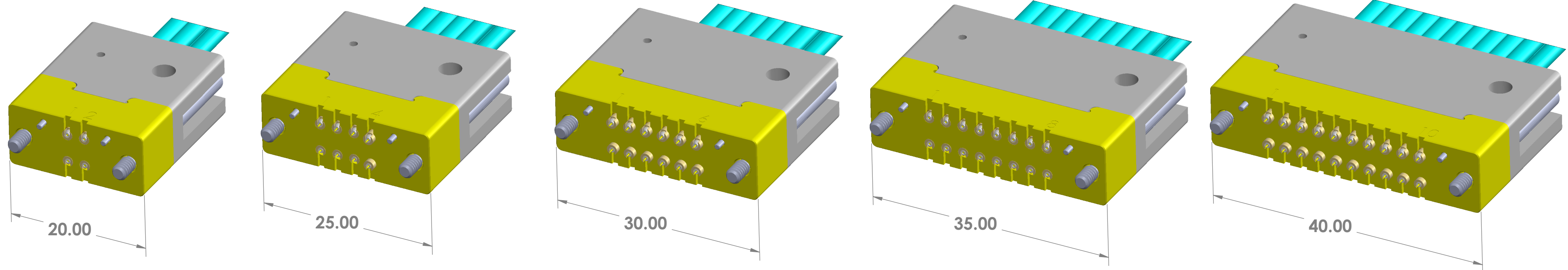


SEE TM13-0239-XX - SINGLE ROW STRIPLINE



CORE HC 2.5mm CABLE
 BUILDER ASSY

SIZE C	CAGE CODE 7M294	DRAWING NUMBER XXXXXX	REV 00
SCALE: 4:1		PART NUMBER: XXXXXX	3 OF 7



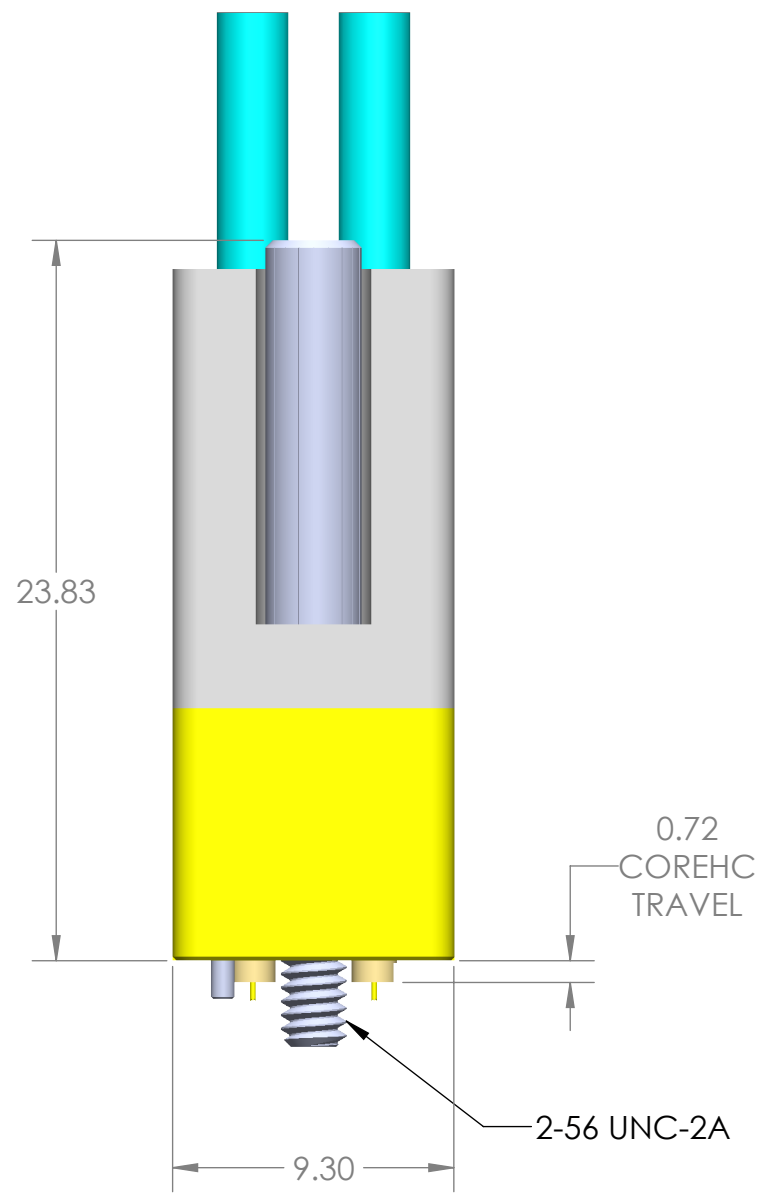
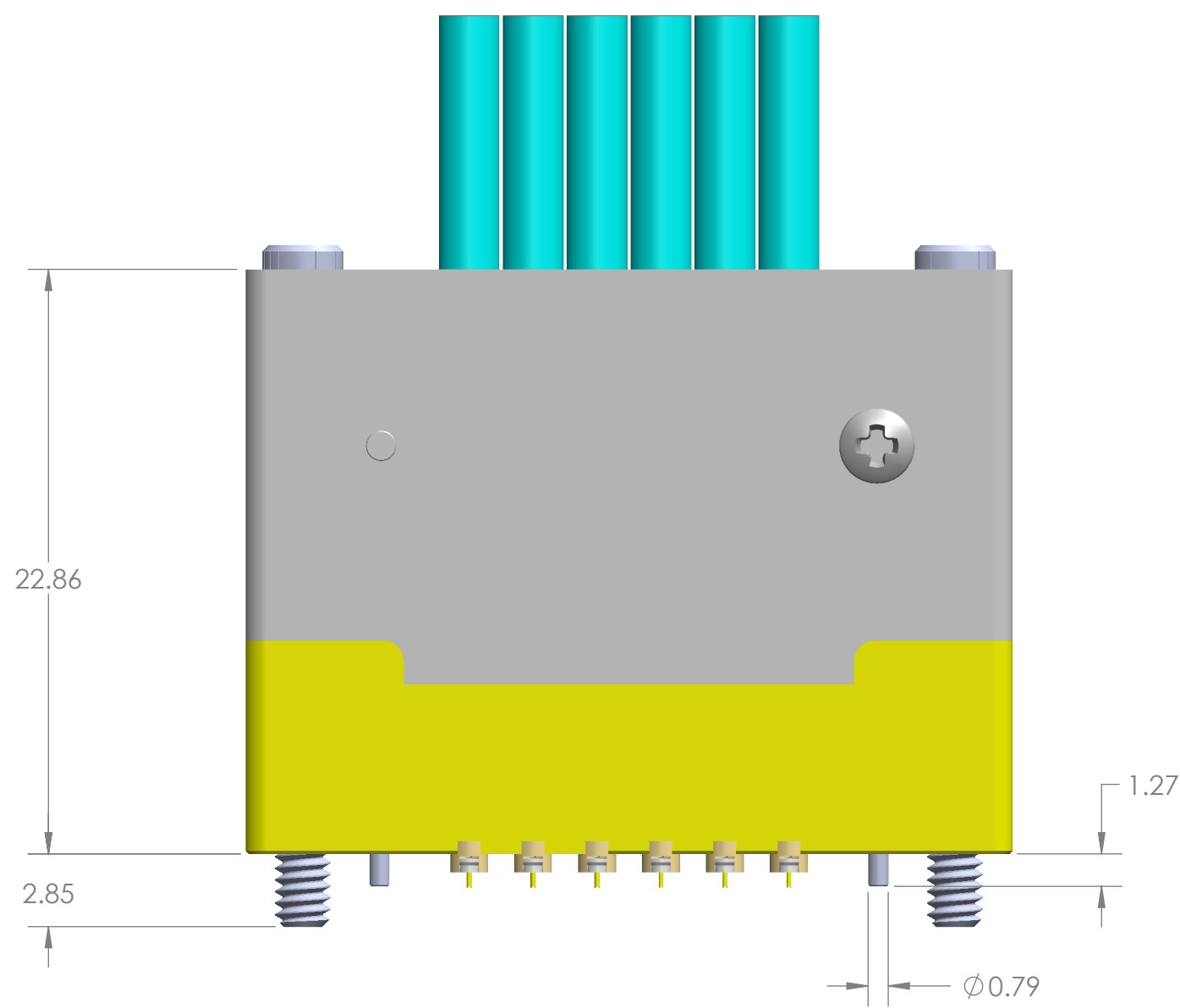
2 POSITION

4 POSITION

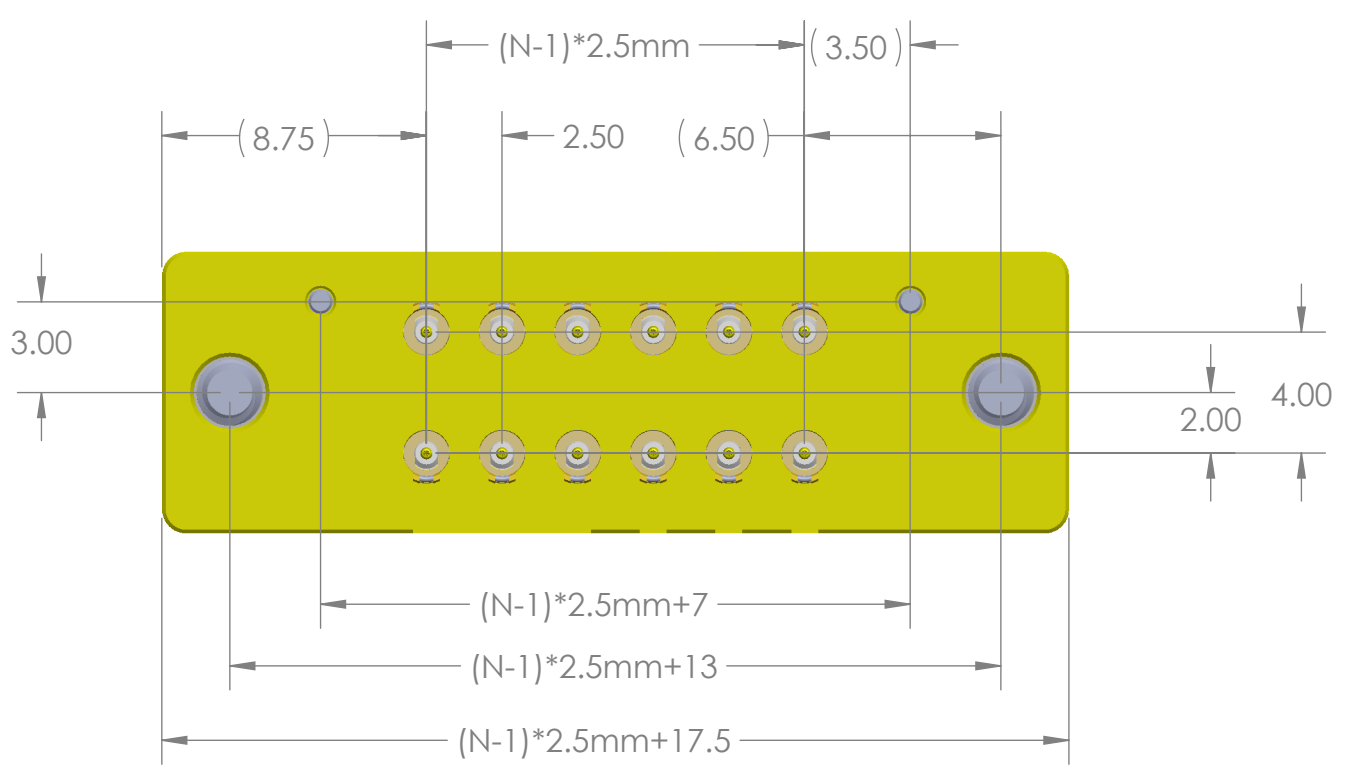
6 POSITION

8 POSITION

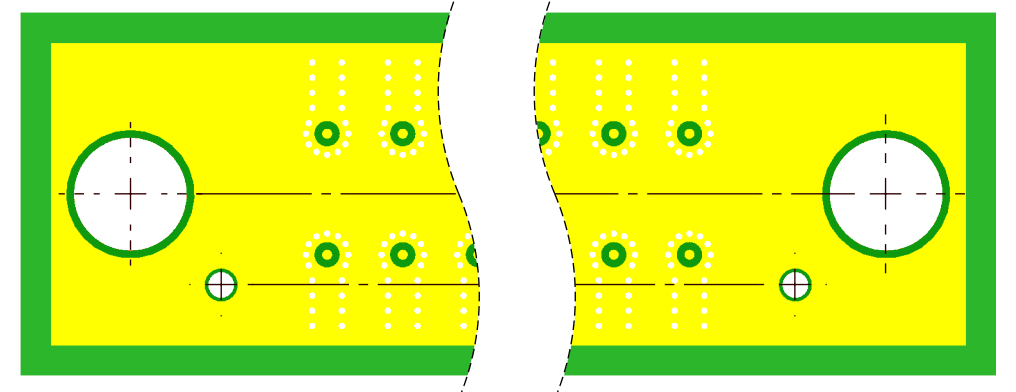
10 POSITION



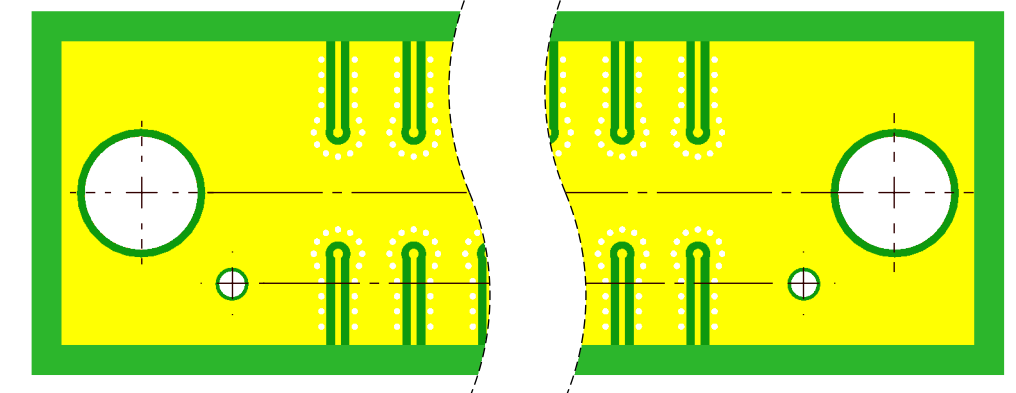
<p>MATERIAL(S): Housing body: Brass Alloy, UNS No. C36000 PER ASTM B-16 Top body: 6061-T651 Aluminum Alloy Core HC2 connector: Spring Pin: BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze Ground Slider & Nut: Brass Alloy C3604B Insulator: TPX / PTFE Dielectric: Ultem/ TPX Spring: Music Wire Dowel Pin, Screw: Stainless Steel. Cable: TM20-7S</p>	<p>ELECTRICAL(S): Impedance: 50 Ohms Nominal Frequency Range: DC to 65 GHz VSWR: 1.50:1 DC to 26 GHz 1.78:1 26 to 40 GHz 2.10:1 40 to 65 GHz Insertion Loss: 2.00 dB DC to 26 GHz 2.64 dB 26 to 40 GHz 3.75 dB 40 to 65 GHz Working Voltage: 335 Vrms max @ Sea Level Test Voltage: 500 Vrms Insulation Resistance: 5000 MegOhms min. Contact Current: 1A DC max. Contact Resistance: Center Contact: 100 m Ω Phase: Matched In Pairs : ±1.0 pS.</p>
<p>MECHANICAL(S): Mating Characteristics: 1.85 Interface per MIL-STD-348 CORE HC2 Interface per CarlisleIT Force to Engage: 1.85: 2 In-lbs max CoreHC2 (Individual): .5 Lbs Typ. Connector Durability: 1.85: 500 Cycles @ 12 cycles/min. max CoreHC2: 20,000 Cycles @ 12 cycles/min. max Permeability: Less than 2.0 mu. Coupling Proof Torque: 1.85: 15 in-lb</p>	<p>ENVIRONMENTAL(S): Temperature Range: -65°C to +150°C Thermal Shock: MIL-STD-202, Method 107, Test Condition F Moisture Resistance: MIL-STD-202, Method 106, Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity. Corrosion: MIL-STD-202, Method 101, Test Condition C Vibration: MIL-STD-202, Method 204, Test Condition A, except 5g Peak Shock: MIL-STD-202, Method 213, Test Condition I, except 10g Peak</p>



**D H2 X R
 DUAL ROW COREHC
 X CHANNELS STRAIGHT**



SEE TM13-0236-XX - DUAL ROW STRIPLINE

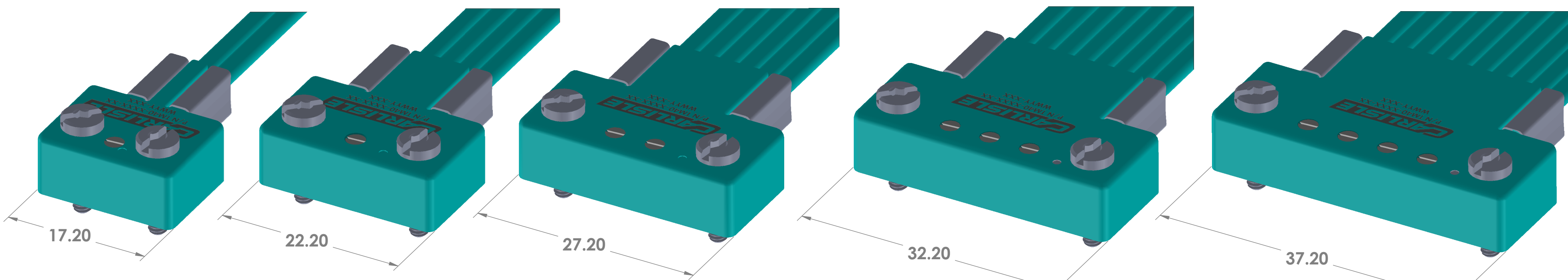


SEE TM13-0240-XX - DUAL ROW CPW



CORE HC 2.5mm CABLE
 BUILDER ASSY

SIZE C	CAGE CODE 7M294	DRAWING NUMBER XXXXXX	REV 00
SCALE: 4:1		PART NUMBER: XXXXXX	4 OF 7



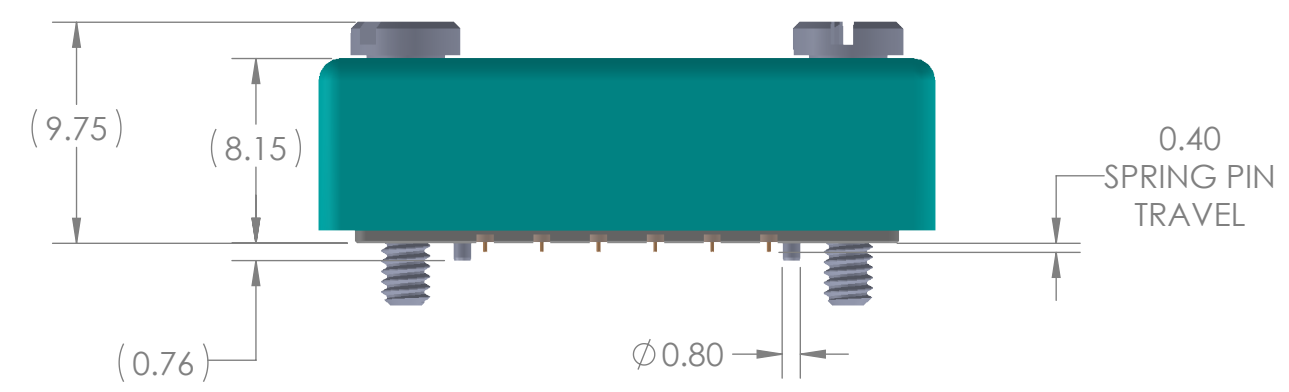
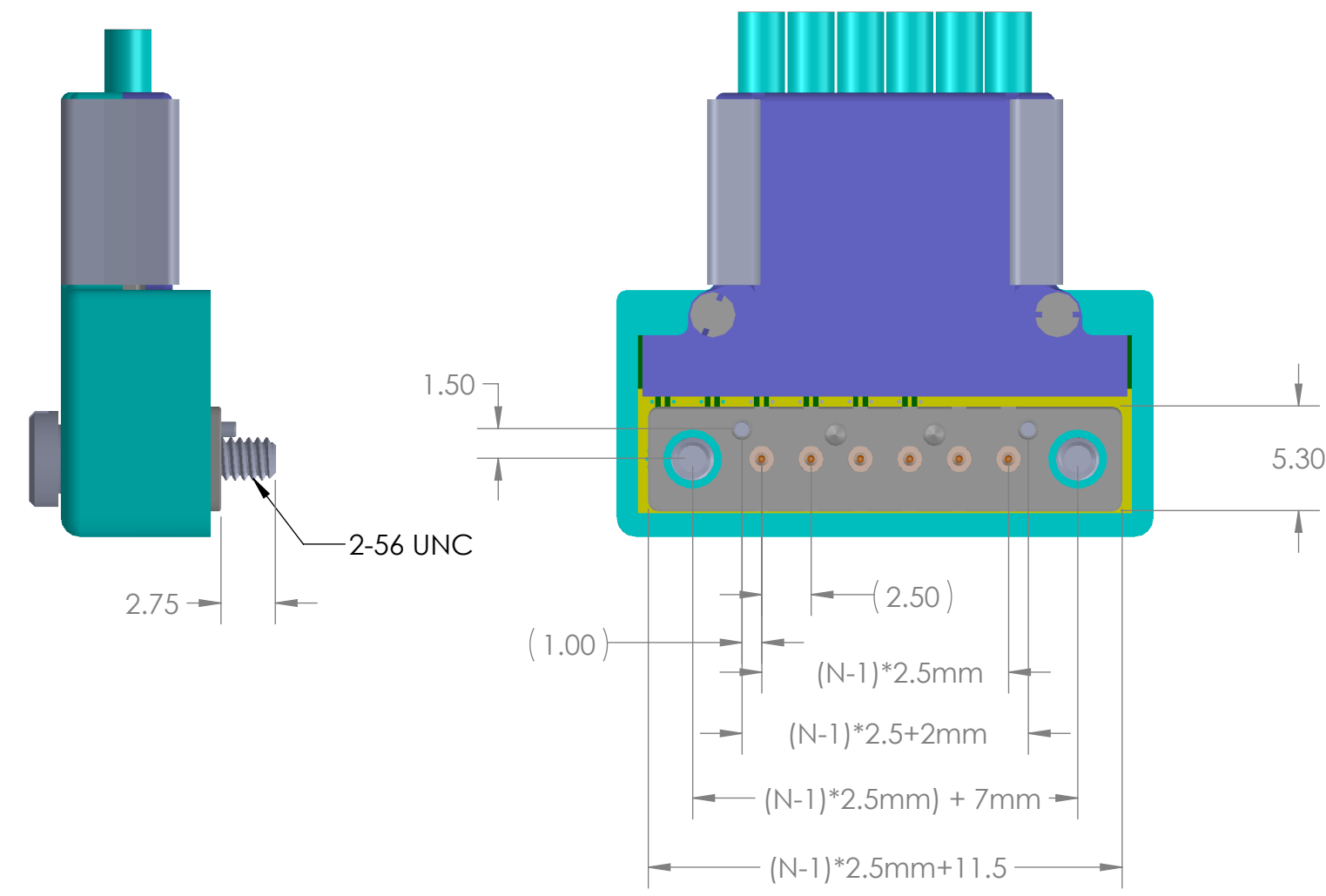
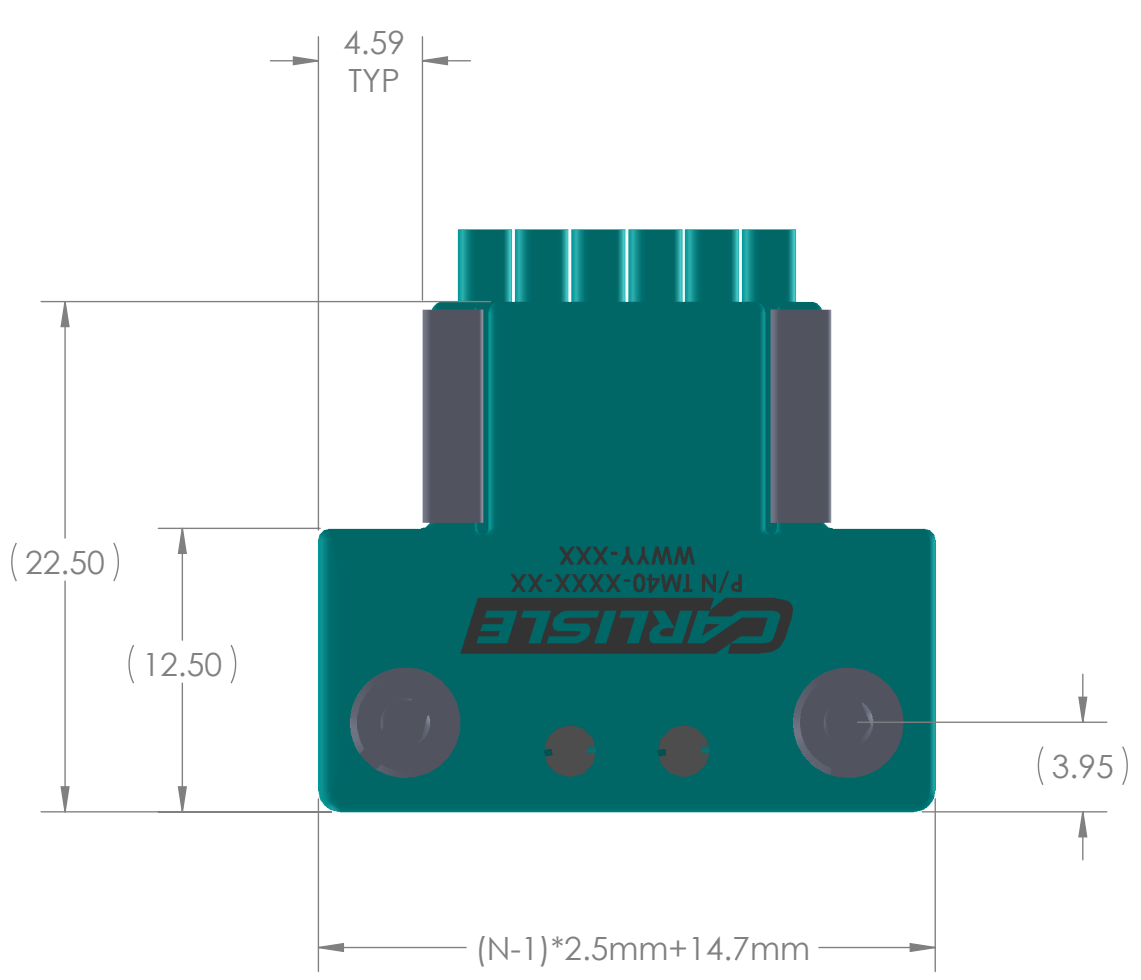
2 POSITION

4 POSITION

6 POSITION

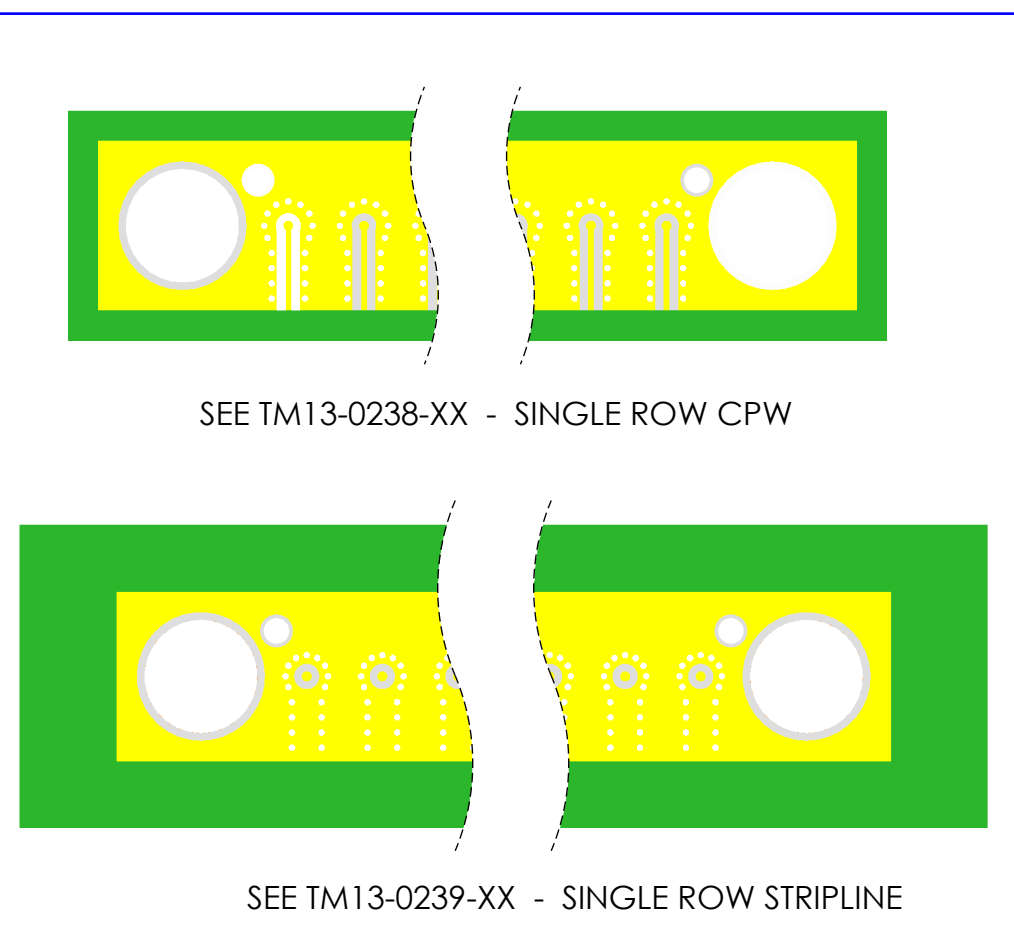
8 POSITION

10 POSITION



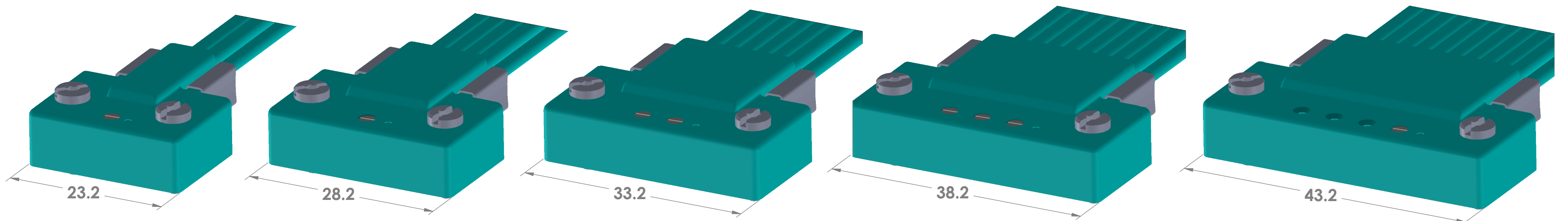
S H2 X L
SINGLE ROW COREHC
X CHANNEL RIGHT ANGEL

<p>MATERIAL(S): Housing body: Brass Alloy, UNS No. C36000 PER ASTM B-16 Top body: 6061-T651 Aluminum Alloy Core HC2 connector: BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze Spring Pin: Brass Alloy C3604B Ground Slider & Nut: Brass Alloy C3604B Insulator: TPX / PTFE Dielectric: Ultem/ TPX Spring: Music Wire Dowel Pin, Screw: Stainless Steel. Cable: TM20-7S</p>	<p>ELECTRICAL(S): Impedance: 50 Ohms Nominal Frequency Range: DC to 65 GHz VSWR: 1.50:1 DC to 26 GHz 1.78:1 26 to 40 GHz 2.10:1 40 to 65 GHz Insertion Loss: 2.00 dB DC to 26 GHz 2.64 dB 26 to 40 GHz 3.75 dB 40 to 65 GHz Working Voltage: 335 Vrms max @ Sea Level Test Voltage: 500 Vrms Insulation Resistance: 5000 MegOhms min. Contact Current: 1A DC max. Contact Resistance: Center Contact: 100 m Ω Phase: Matched In Pairs : ±1.0 pS.</p>
<p>MECHANICAL(S): Mating Characteristics: 1.85 Interface per MIL-STD-348 CORE HC2 Interface per CarlisleIT Force to Engage: 1.85: 2 In-lbs max CoreHC2 (Individual): .5 Lbs Typ. Connector Durability: 1.85: 500 Cycles @ 12 cycles/min. max CoreHC2: 20,000 Cycles @ 12 cycles/min. max Permeability: Less than 2.0 mu. Coupling Proof Torque: 1.85: 15 in-lb</p>	<p>ENVIRONMENTAL(S): Temperature Range: -65°C to +150°C Thermal Shock: MIL-STD-202, Method 107, Test Condition F Moisture Resistance: MIL-STD-202, Method 106, Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity. Corrosion: MIL-STD-202, Method 101, Test Condition C Vibration: MIL-STD-202, Method 204, Test Condition A, except 5g Peak Shock: MIL-STD-202, Method 213, Test Condition I, except 10g Peak</p>



CORE HC 2.5mm CABLE
 BUILDER ASSY

SIZE C	CAGE CODE 7M294	DRAWING NUMBER XXXXXX	REV 00
SCALE: 3:1	PART NUMBER: XXXXXX	5 OF 7	



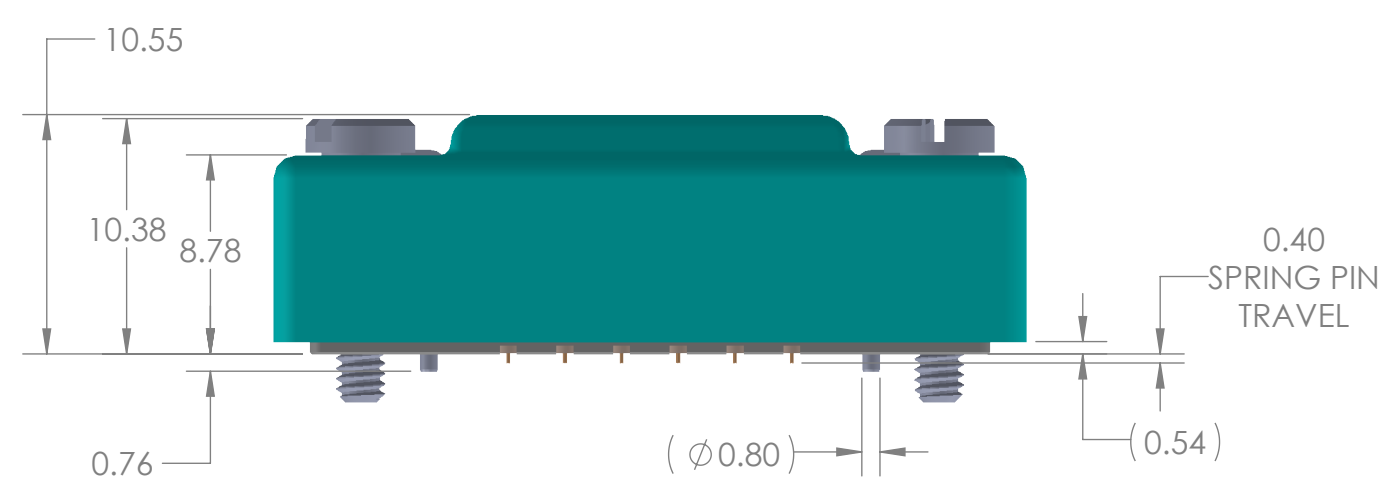
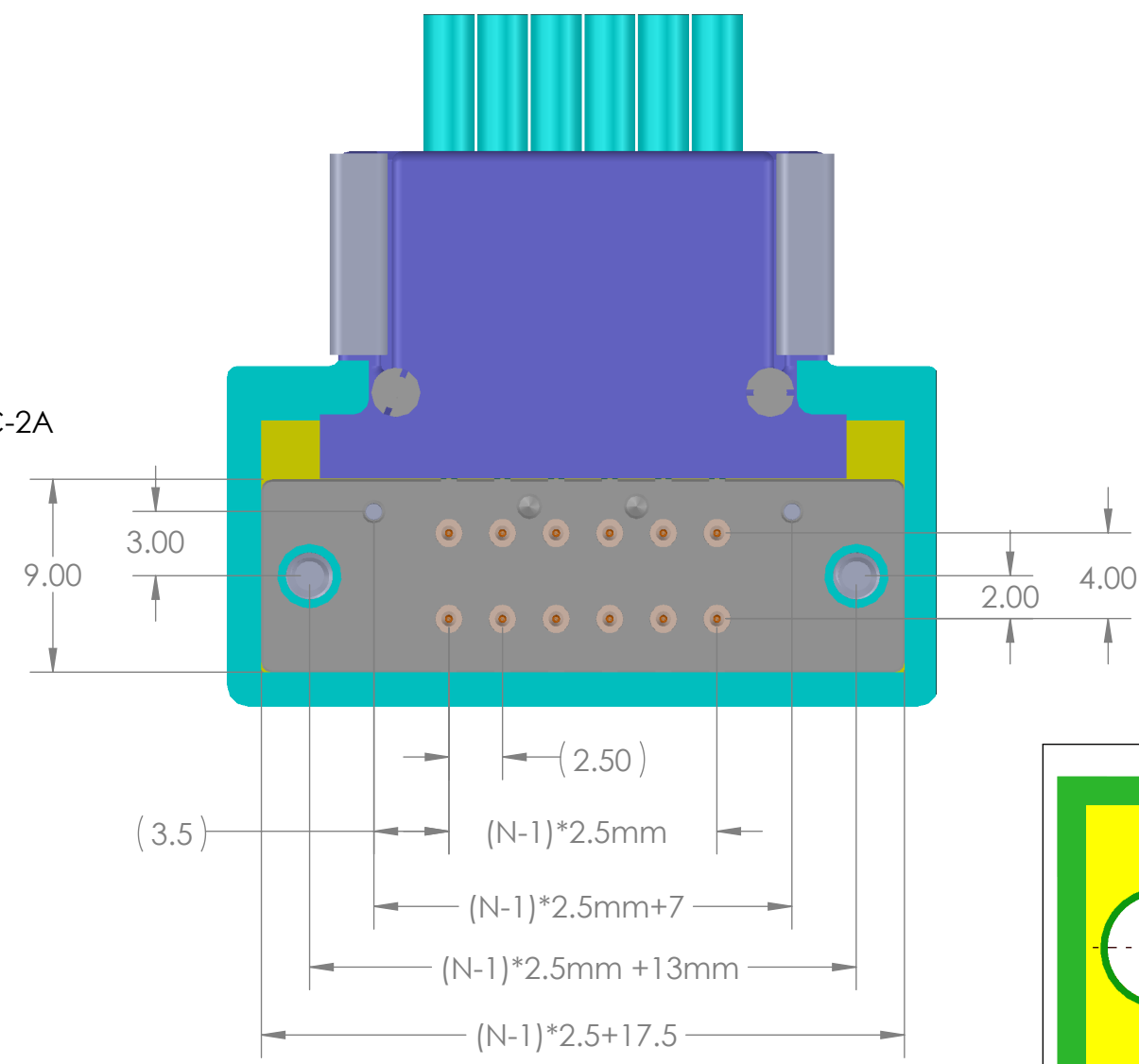
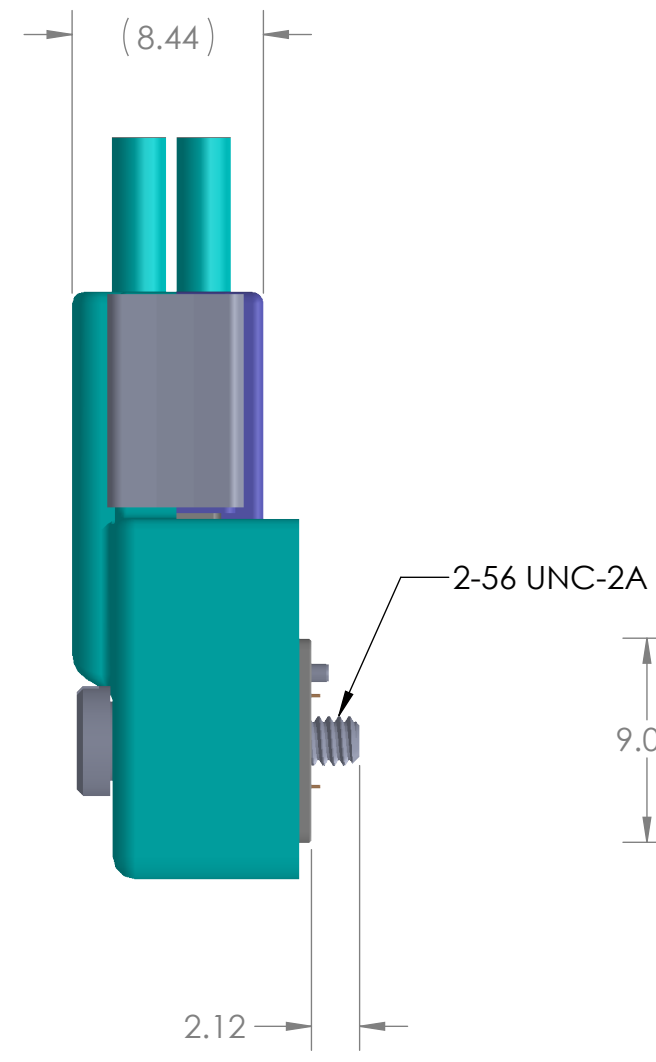
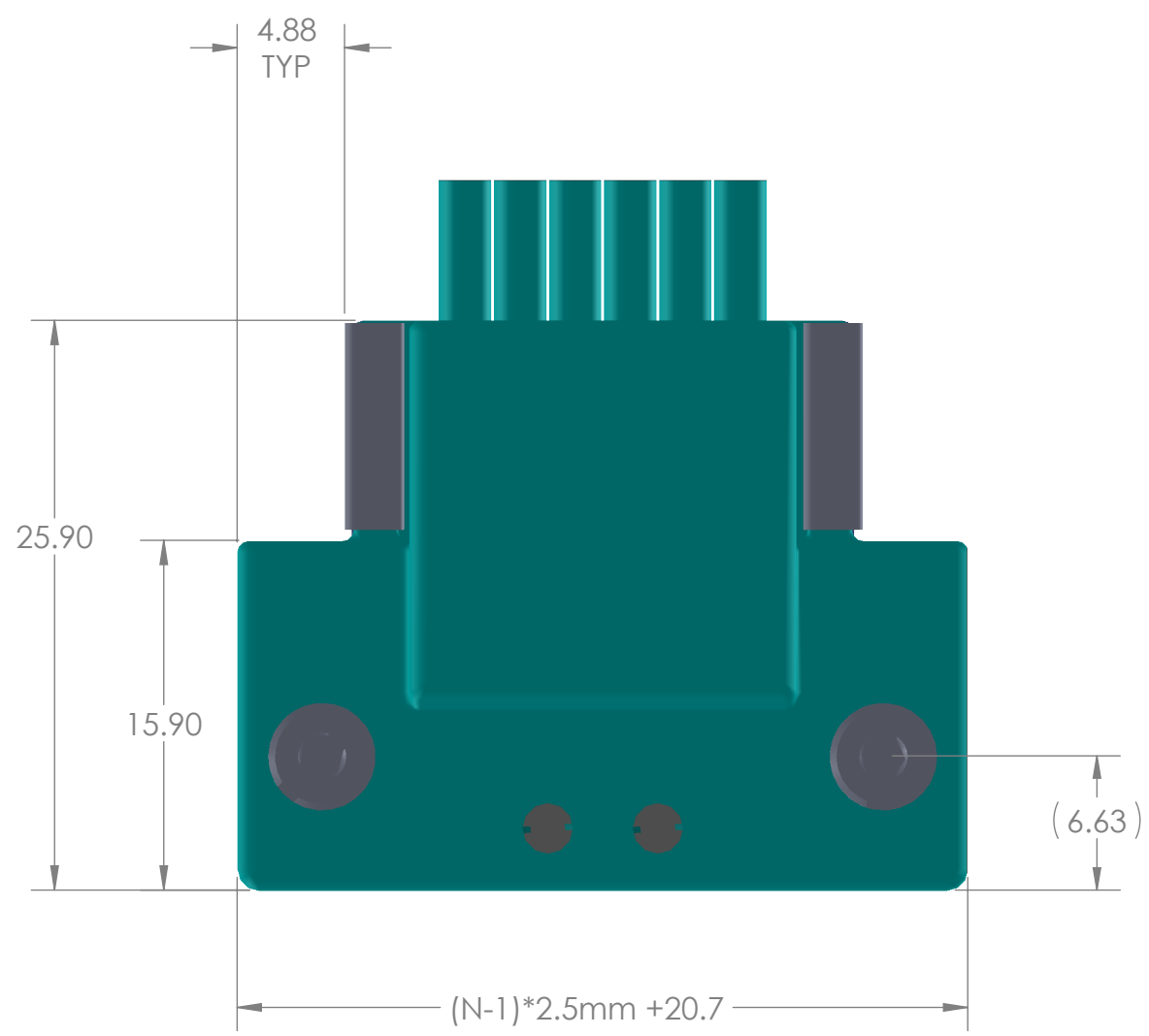
2 POSITION

4 POSITION

6 POSITION

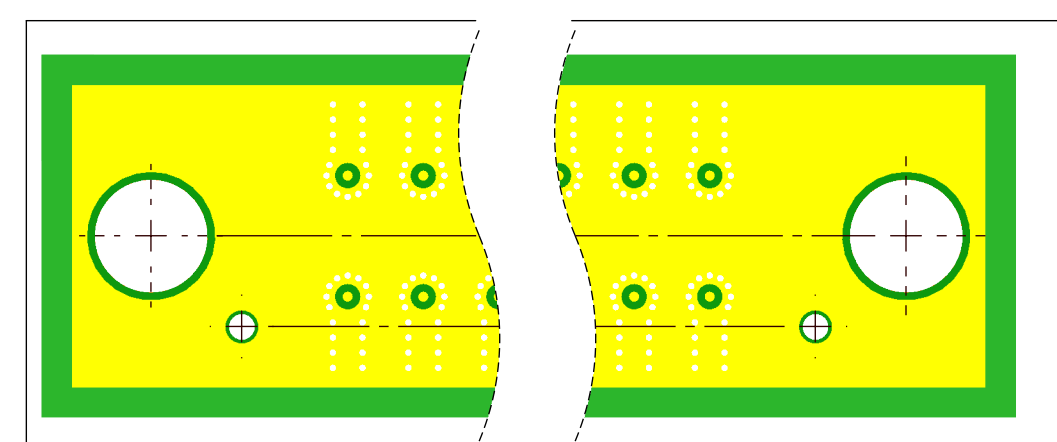
8 POSITION

10 POSITION

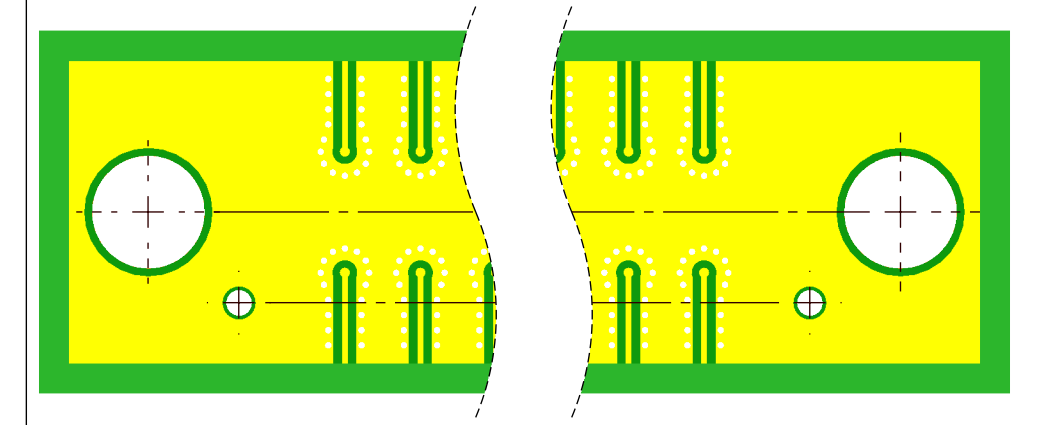


**D H2 X L
DUAL ROW COREHC
X CHANNEL RIGHT ANGEL**

<p>MATERIAL(S): Housing body: Brass Alloy, UNS No. C36000 PER ASTM B-16 Top body: 6061-T651 Aluminum Alloy Core HC2 connector: Spring Pin: BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze Ground Slider & Nut: Brass Alloy C3604B Insulator: TPX / PTFE Dielectric: Ultem/ TPX Spring: Music Wire Dowel Pin, Screw: Stainless Steel. Cable: TM20-7S</p>	<p>ELECTRICAL(S): Impedance: 50 Ohms Nominal Frequency Range: DC to 65 GHz VSWR: 1.50:1 DC to 26 GHz 1.78:1 26 to 40 GHz 2.10:1 40 to 65 GHz Insertion Loss: 2.00 dB DC to 26 GHz 2.64 dB 26 to 40 GHz 3.75 dB 40 to 65 GHz Working Voltage: 335 Vrms max @ Sea Level Test Voltage: 500 Vrms Insulation Resistance: 5000 MegOhms min. Contact Current: 1A DC max. Contact Resistance: Center Contact: 100 m Ω Phase: Matched In Pairs : ±1.0 pS.</p>
<p>MECHANICAL(S): Mating Characteristics: 1.85 Interface per MIL-STD-348 CORE HC2 Interface per CarlisleIT Force to Engage: 1.85: 2 In-lbs max CoreHC2 (Individual): .5 Lbs Typ. Connector Durability: 1.85: 500 Cycles @ 12 cycles/min. max CoreHC2: 20,000 Cycles @ 12 cycles/min. max Permeability: Less than 2.0 mu. Coupling Proof Torque: 1.85: 15 in-lb</p>	<p>ENVIRONMENTAL(S): Temperature Range: -65°C to +150°C Thermal Shock: MIL-STD-202, Method 107, Test Condition F Moisture Resistance: MIL-STD-202, Method 106, Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity. Corrosion: MIL-STD-202, Method 101, Test Condition C Vibration: MIL-STD-202, Method 204, Test Condition A, except 5g Peak Shock: MIL-STD-202, Method 213, Test Condition I, except 10g Peak</p>



SEE TM13-0236-XX - DUAL ROW STRIPLINE

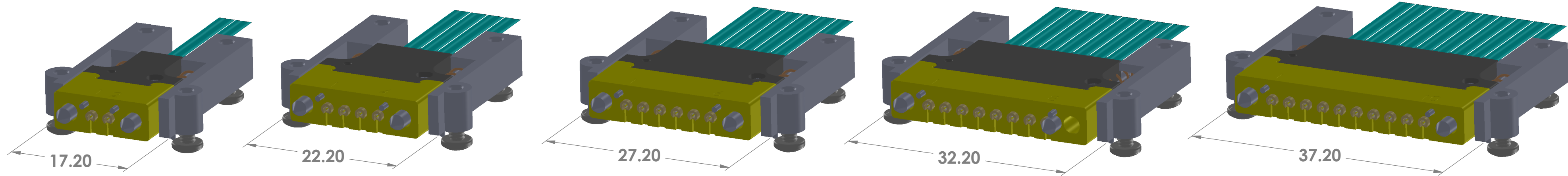


SEE TM13-0240-XX - DUAL ROW CPW



CORE HC 2.5mm CABLE
BUILDER ASSY

SIZE C	CAGE CODE 7M294	DRAWING NUMBER XXXXXX	REV 00
SCALE: 3:1		PART NUMBER: XXXXXX	6 OF 7



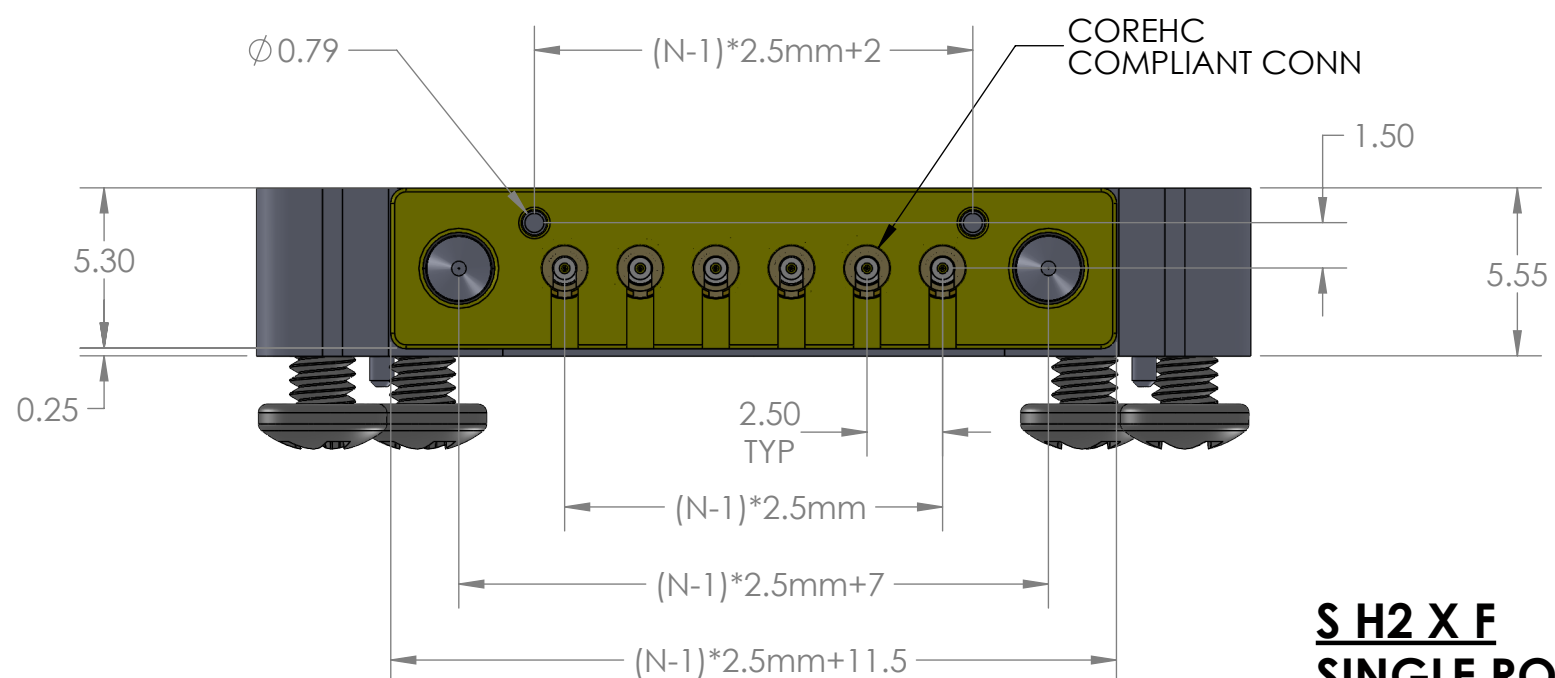
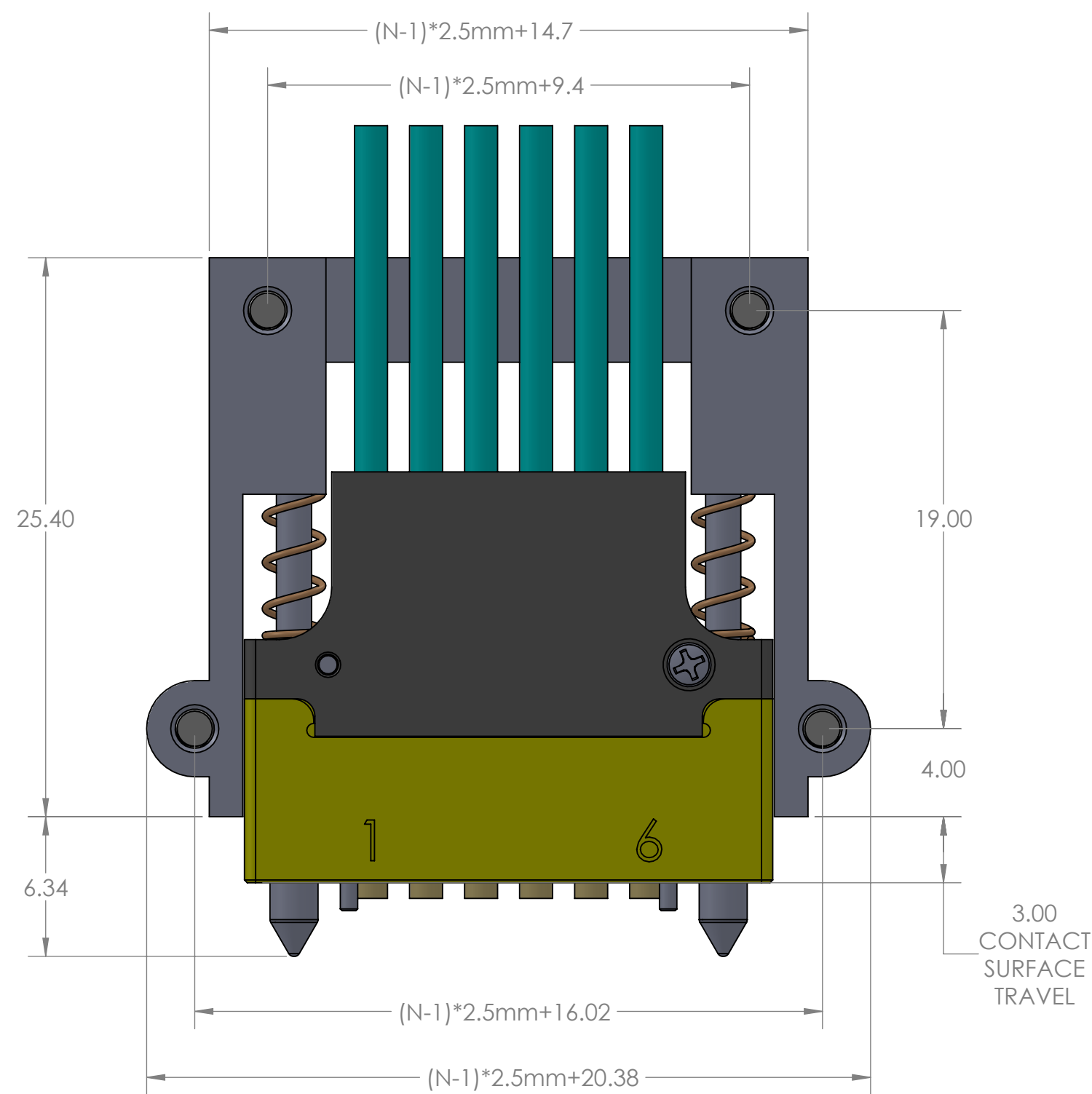
2 POSITION

4 POSITION

6 POSITION

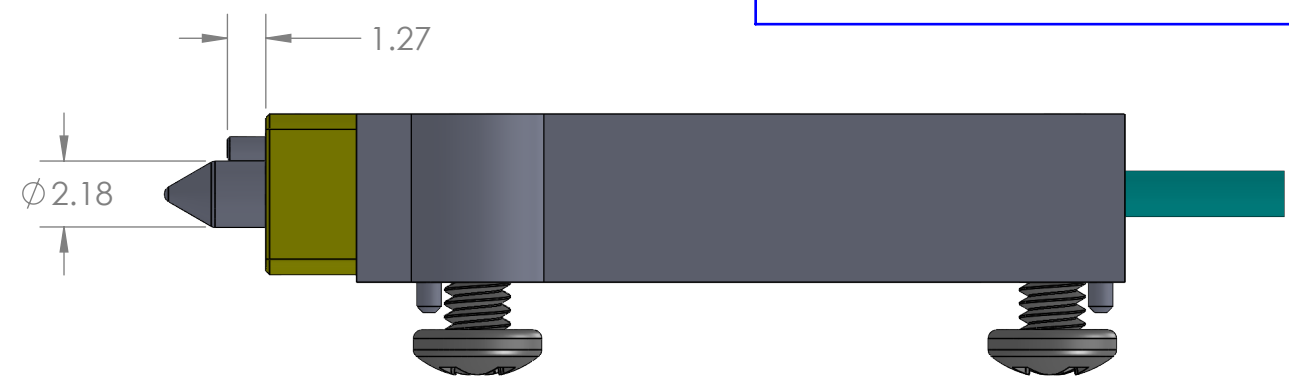
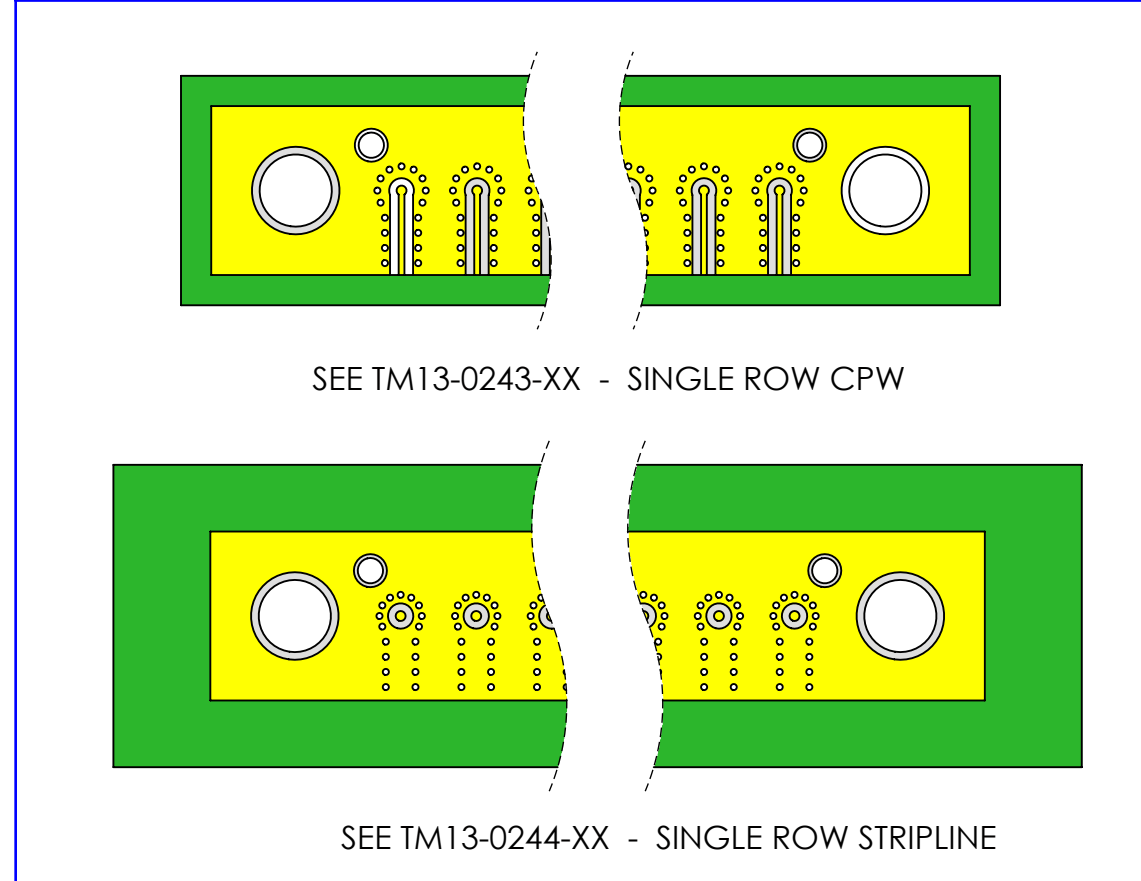
8 POSITION

10 POSITION



S H2 X F
SINGLE ROW COREHC
X CHANNEL FLEX STRAIGHT

<p>MATERIAL(S): Housing body: Brass Alloy, UNS No. C36000 PER ASTM B-16 Top body: 6061-T651 Aluminum Alloy Core HC2 connector: Brass Alloy C3604B Spring Pin: BeCu Alloy/Brass Alloy C3604B/ Phosphor Bronze Ground Slider & Nut: Brass Alloy C3604B Insulator: TPX / PTFE Dielectric: Ultem/ TPX Spring: Music Wire Dowel Pin, Screw: Stainless Steel. Cable: TM20-7S</p>	<p>ELECTRICAL(S): Impedance: 50 Ohms Nominal Frequency Range: DC to 65 GHz VSWR: 1.50:1 DC to 26 GHz 1.78:1 26 to 40 GHz 2.10:1 40 to 65 GHz Insertion Loss: 2.00 dB DC to 26 GHz 2.64 dB 26 to 40 GHz 3.75 dB 40 to 65 GHz Working Voltage: 335 Vrms max @ Sea Level Test Voltage: 500 Vrms Insulation Resistance: 5000 MegOhms min. Contact Current: 1A DC max. Contact Resistance: Center Contact: 100 m Ω Phase: Matched In Pairs : ±1.0 pS.</p>
<p>MECHANICAL(S): Mating Characteristics: 1.85 Interface per MIL-STD-348 CORE HC2 Interface per CarlisleT Force to Engage: 1.85: 2 In-lbs max CoreHC2 (Individual): .5 Lbs Typ. Connector Durability: 1.85: 500 Cycles @ 12 cycles/min. max CoreHC2: 20,000 Cycles @ 12 cycles/min. max Permeability: Less than 2.0 mu. Coupling Proof Torque: 1.85: 15 in-lb</p>	<p>ENVIRONMENTAL(S): Temperature Range: -65°C to +150°C Thermal Shock: MIL-STD-202, Method 107, Test Condition F Moisture Resistance: MIL-STD-202, Method 106, Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity. Corrosion: MIL-STD-202, Method 101, Test Condition C Vibration: MIL-STD-202, Method 204, Test Condition A, except 5g Peak Shock: MIL-STD-202, Method 213, Test Condition I, except 10g Peak</p>



CORE HC 2.5mm CABLE
 BUILDER ASSY

SIZE	CAGE CODE	DRAWING NUMBER	REV
C	7M294	XXXXXX	00
SCALE: 4:1	PART NUMBER: XXXXXX	7 OF 7	