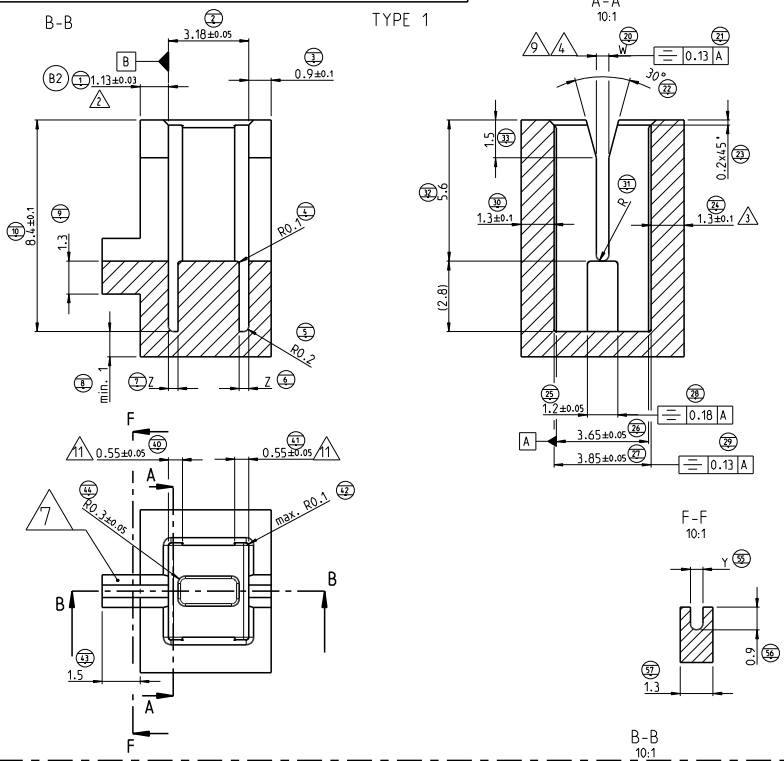
LOC	DIST
A1	-

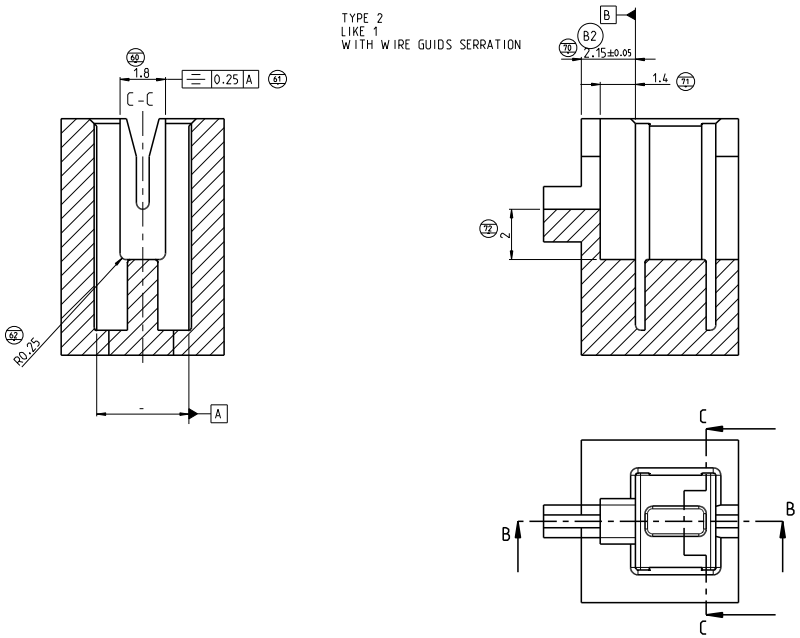
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B1	CHANGE DIMENSION 100/ENVIL DESIGN CHANGED	31OCT2012	Ba.	BS
	B2	Change 17 x Index B2 and add page 3	19AUG2013	WH	WH
	B3	ADD SLOT WIDTH SPEC FOR 17-16 WIRE	05JUL2019	JH	PKS
	B4	ADD "Z" DIMENSION IN THE TABLE	14APR2021	JA	TD

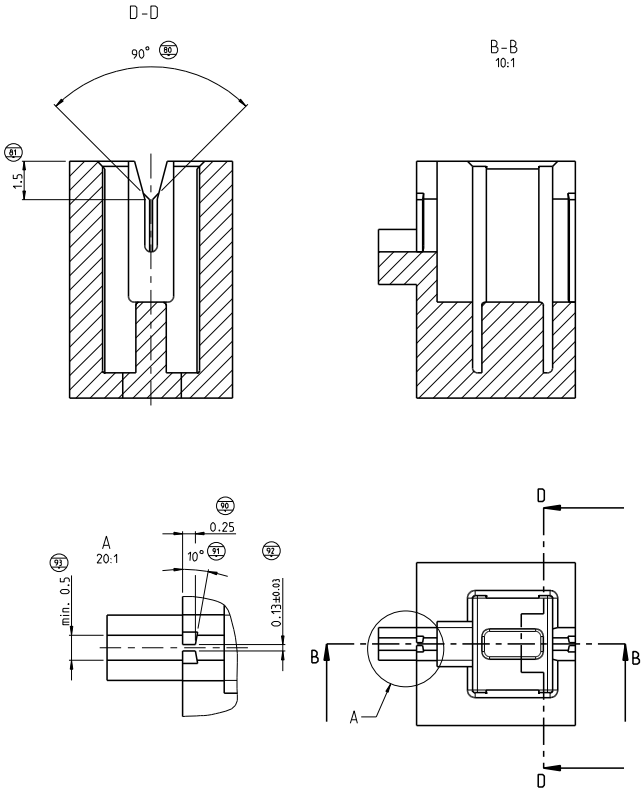
TYPE 1



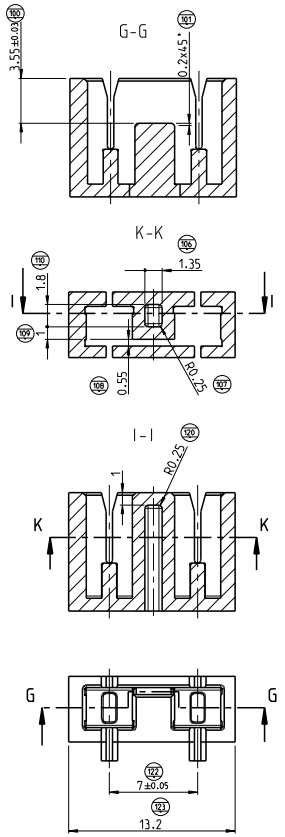
TYPE 2
LIKE 1
WITH WIRE GUIDS SERRATION



TYPE 3
LIKE 2
WITH RESTRICTED WIRE GUIDS
(IS ALSO COMBINED WITH TYPE 1)



TYPE 4
FOR CONTACT BRIDGE



(B3)						
0.6	1.30	1.23	-	17-16	-	Ø1.12mm to 1.30mm
0.6	1.12	1.08	-	19.5-17.5 17 Δ0	-	Ø0.85mm to Ø1.12mm
0.6	0.85	0.76	-	22.5-20 19.5 Δ0	-	Ø0.63mm to Ø0.85mm
0.6	0.63	0.52	26-23	26-22.5	Ø0.4mm to Ø0.56mm	Ø0.4mm to Ø0.63mm
0.45	0.4	0.31	29.5-26.5 26 Δ0	29.5-26.5 26 Δ0	Ø0.265mm to Ø0.4mm	Ø0.265mm to Ø0.4mm
0.45	0.265	0.18	33-30 29.5 Δ0	33-30 29.5 Δ0	Ø0.18mm to Ø0.265mm	Ø0.18mm to Ø0.265mm
"Z" -0.1	"Y" +0.1	"W" -0.05	DOUBLE WIRE	SINGLE WIRE	DOUBLE WIRE	SINGLE WIRE
			AWG BARE WIRE RANGE		BARE WIRE RANGE	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.4, 1 PLC ±0.4, 2 PLC ±0.4, 3 PLC ±0.13, 4 PLC ±0.4, ANGLES ±1°

MATERIAL 5 | FINISH -

DWN H.Ballmert 24MAY2012
CHK B.Schnaubelt 01JUN2012
APVD T.Klenner 01JUN2012

PRODUCT SPEC -
APPLICATION SPEC 8
WEIGHT -

TE Connectivity

NAME CAVITY 300
MAG-MATE TERMINAL
WITH PRESS FIT ZONE

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-114-74109-5 | RESTRICTED TO -

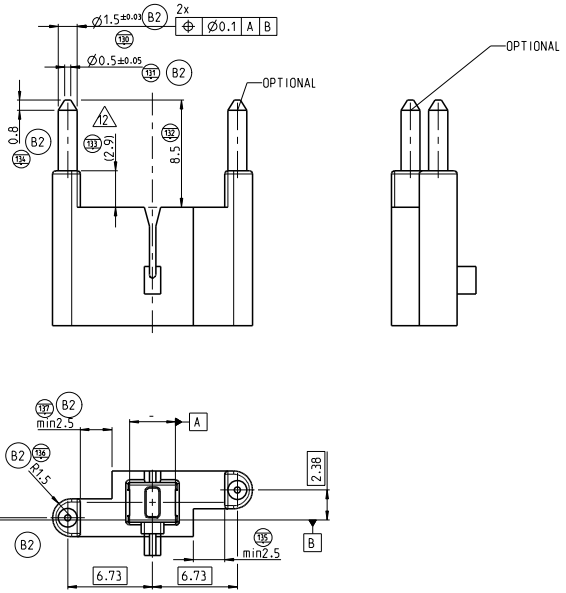
Customer Drawing | SCALE 5:1 | SHEET 1 OF 4 | REV B4

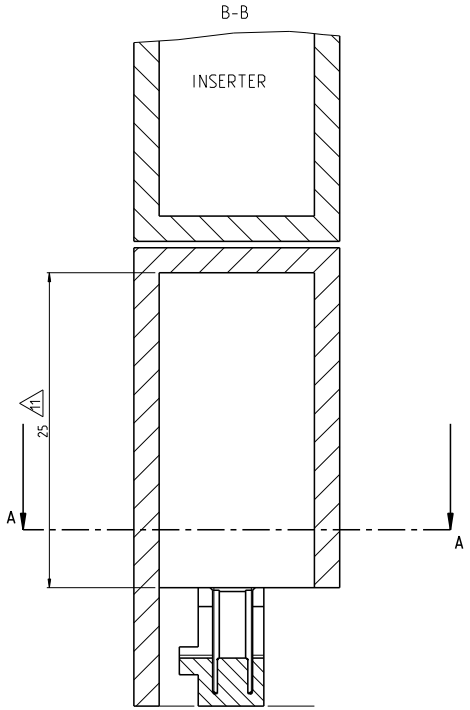
LOC	DIST
A1	-

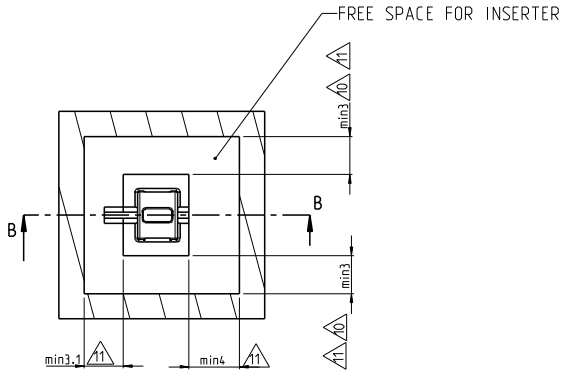
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

TYPE 5
LIKE 1/2/3 WITH PCB STOP.
(IS ALSO COMBINED WITH RESTRICTED WIRE GUIDS)







THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±
2 PLC ±0.13
3 PLC ±
4 PLC ±
ANGLES ±°

MATERIAL - 5

FINISH - -

DWN	H.Ballmert 01JUN2012
CHK	D.Schnaubelt 01JUN2012
APVD	T.Kleoper 01JUN2012
PRODUCT SPEC	-
APPLICATION SPEC	SEE SHEET 1
WEIGHT	-

TE Connectivity

NAME: CAVITY 300
MAG-MATE TERMINAL
WITH PRESS FIT ZONE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-114-74109-5	-

Customer Drawing

SCALE 5:1 SHEET 2 OF 4 REV B4

LOC	DIST
–	–

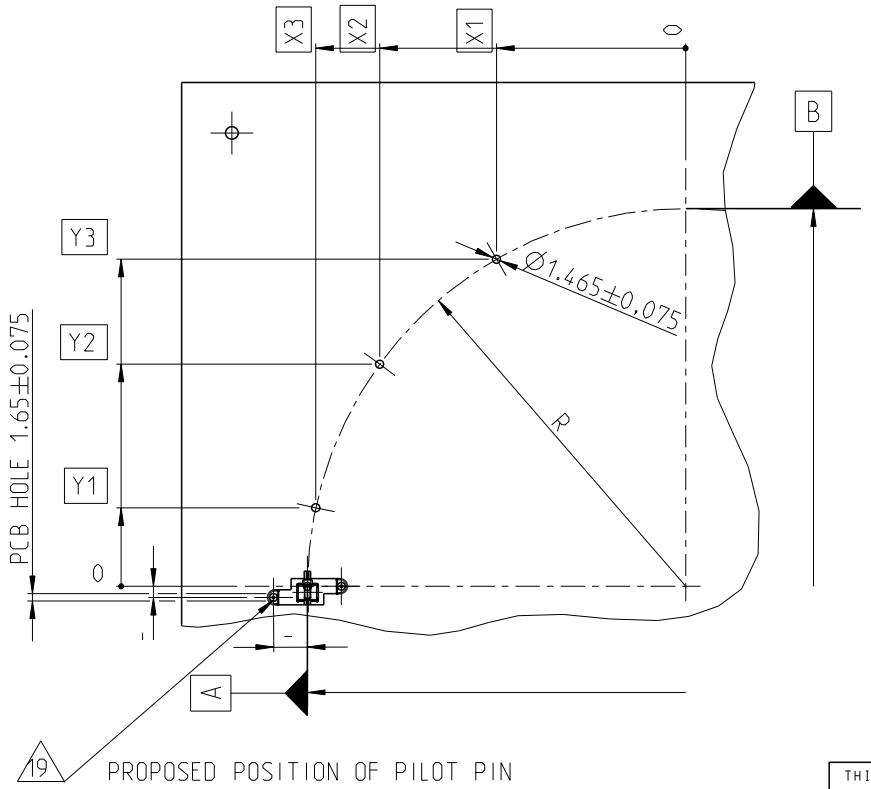
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PROPOSED PCB LAYOUT 16

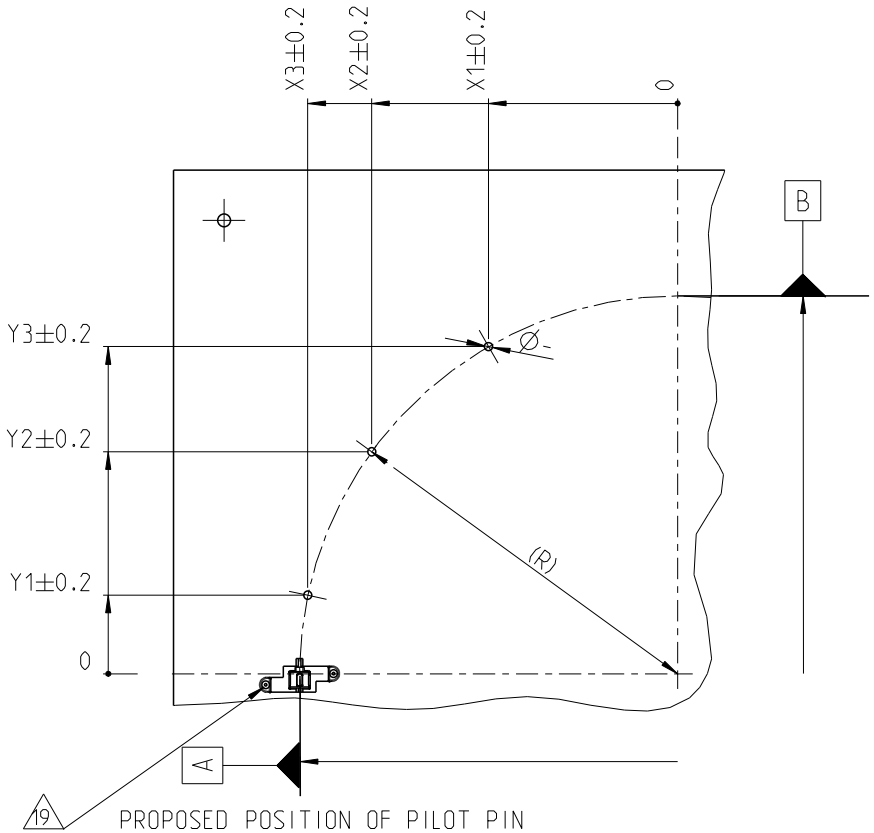
FOR ALL CONTACT AND POSITIONS HOLES

⌖	∅0.1	A	B



19 PROPOSED POSITION OF PILOT PIN

TOLERANCES OF CAVITY-POSITION 17



19 PROPOSED POSITION OF PILOT PIN

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	±0.2
1 PLC	±0.2
2 PLC	±0.2
3 PLC	±0.2
4 PLC	±0.2
ANGLES	±5°

MATERIAL - 5

FINISH -

DWN	24MAY2012 H.Ballmert
CHK	01JUN2012 B.Schnaubelt
APVD	01JUN2012 T.Klenner
PRODUCT SPEC	-
APPLICATION SPEC	SEE SHEET 1
WEIGHT	-

TE Connectivity

NAME: CAVITY 300 MAG-MATE TERMINAL WITH PRESS FIT ZONE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-114-74109-5	-

Customer Drawing | SCALE 5:1 | SHEET 3 OF 4 | REV B4

1470-19 (3/11)

LOC	DIST
A1	-

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

1 THIS DRAWING SHOWS 5 TYPES OF CAVITIES FOR HOUSING STANDARD MAG-MATE INTERCONNECT TERMINALS
CUSTOMERS ARE ASKED TO LET APPROVE THEIR FINAL DESIGN DRAWING FROM TE (DEPARTMENT: PRODUCT ENGINEERING)

2 THE WALL THICKNESS AT THE CUT OFF SIDE MUST BE SAME FOR ALL CAVITIES.

3 IT MUST BE GUARANTEED THAT THE MAGNET WIRE CAN TOUCH THE GROUND OF
SLOT AND ANVIL. COIL WINDINGS OR OTHER PARTS HAVE TO BE LOWER THAN THE
WIRE SLOT OF CAVITY TO GUARANTEE OPTIMIZED CONNECTIONS.

4 THE SLOT WIDTH HAS TO BE ACCORDING TO WIRE DIAMETER (Ø-0,05mm)
IF WIRES WITH DIFFERENT DIAMETERS SHALL BE USED, PLEASE CONTACT THE TE (DEPARTMENT: PRODUCT ENGINEERING)

5 RECOMMENDED MATERIAL: PA 66 GF25.
IF OTHER MATERIAL TO BE USED, PLEASE CONSULT TE (DEPARTMENT: PRODUCT ENGINEERING)

6 DRAFT ANGLES MUST BE HELD WITHIN THE FEATURE TOLERANCE.

7 THE NOSE IS AT WIRE CUTTING SIDE. THE INSERTER CUTS THE NOSE AND WIRE END
DURING CONTACT INSERTION.

8 FOR APPLICATION INFORMATION SEE APPLICATION SPEC. 114-74109.

9 IF MAG-MATE WIRE SIZE IS IN BETWEEN THE INDICATED RANGE PLEASE CONTACT TE (DEPARTMENT: PRODUCT ENGINEERING)

10 FOR MULTIPLE CAVITY BLOCKS, THIS DIMENSION IS USABLE ONLY FOR FIRST AND LAST CAVITY.
SEE SHEET-2

IF OTHER DIMENSIONS ARE REQUIRED FOR THE APPLICATION, PLEASE CONTACT TE (DEPARTMENT: APPLICATION TOOLING)

11 SEE SHEET-2

12 EXAMPLE FOR AN 1,6mm THICK PCB. FOR DETAILS SEE SPECIFICATION NO. 108-90801

B2 13 DATUM A AND B ACCORDING TYPE 1,TYPE 2 ALSO AT TYPE 3,4 AND 5

B2 14 MULTISPRING ACCORDING TO SPEC 108-90801

B2 15 MAG - MATE ACC SPEC: 108-74116

B2 16 PCB-LAYOUT (HOLES ACC SPEC: 108-90801)

B2 17 TOLERANCES OF POSITION OF MAG-MATE AND CAVITY BEFOR ASSEMBLE WITH PCB

B2 18 APPLICATION SPEC. ACC MAG-MATE: 114-74109

B2 19 POSITION OF POST (POST TYPE 5)

B2 20 TO BE APPROVED, ON DEMAND BY TE (DEPARTMENT: PRODUCT ENGINEERING)

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±- } 0.13
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL 5
FINISH -

DWN H.Ballmert 01JUN2012
CHK B.Schnauheit 01JUN2012
APVD T.Kleiner 01JUN2012
PRODUCT SPEC -
APPLICATION SPEC SEE SHEET 1
WEIGHT -
Customer Drawing

TE Connectivity

NAME CAVITY 300
MAG-MATE TERMINAL
WITH PRESS FIT ZONE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-114-74109-5	-

SCALE 5:1 SHEET 4 OF 4 REV B4