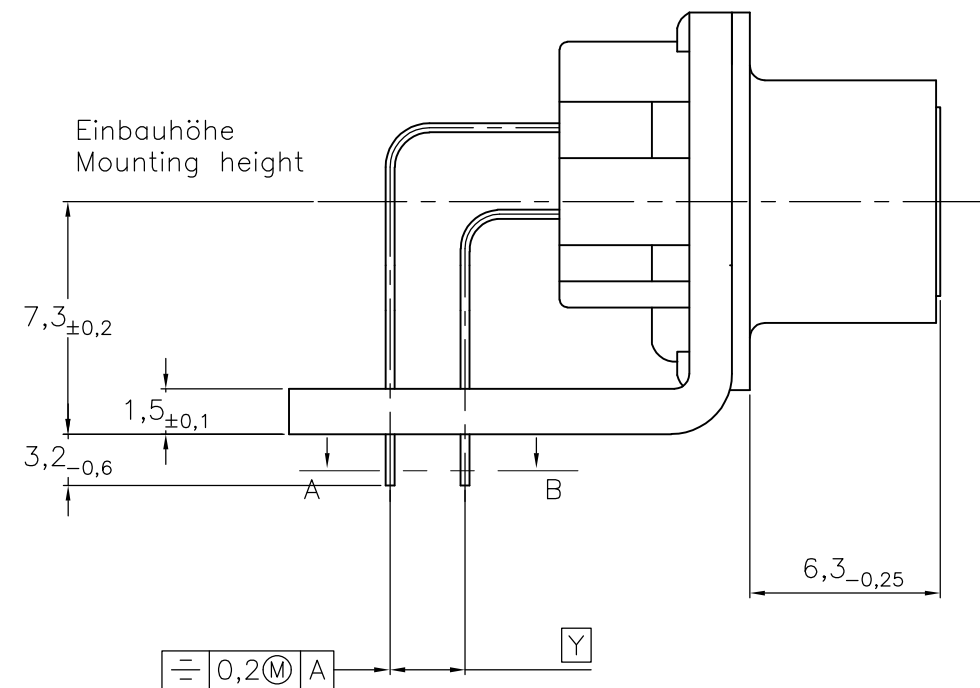
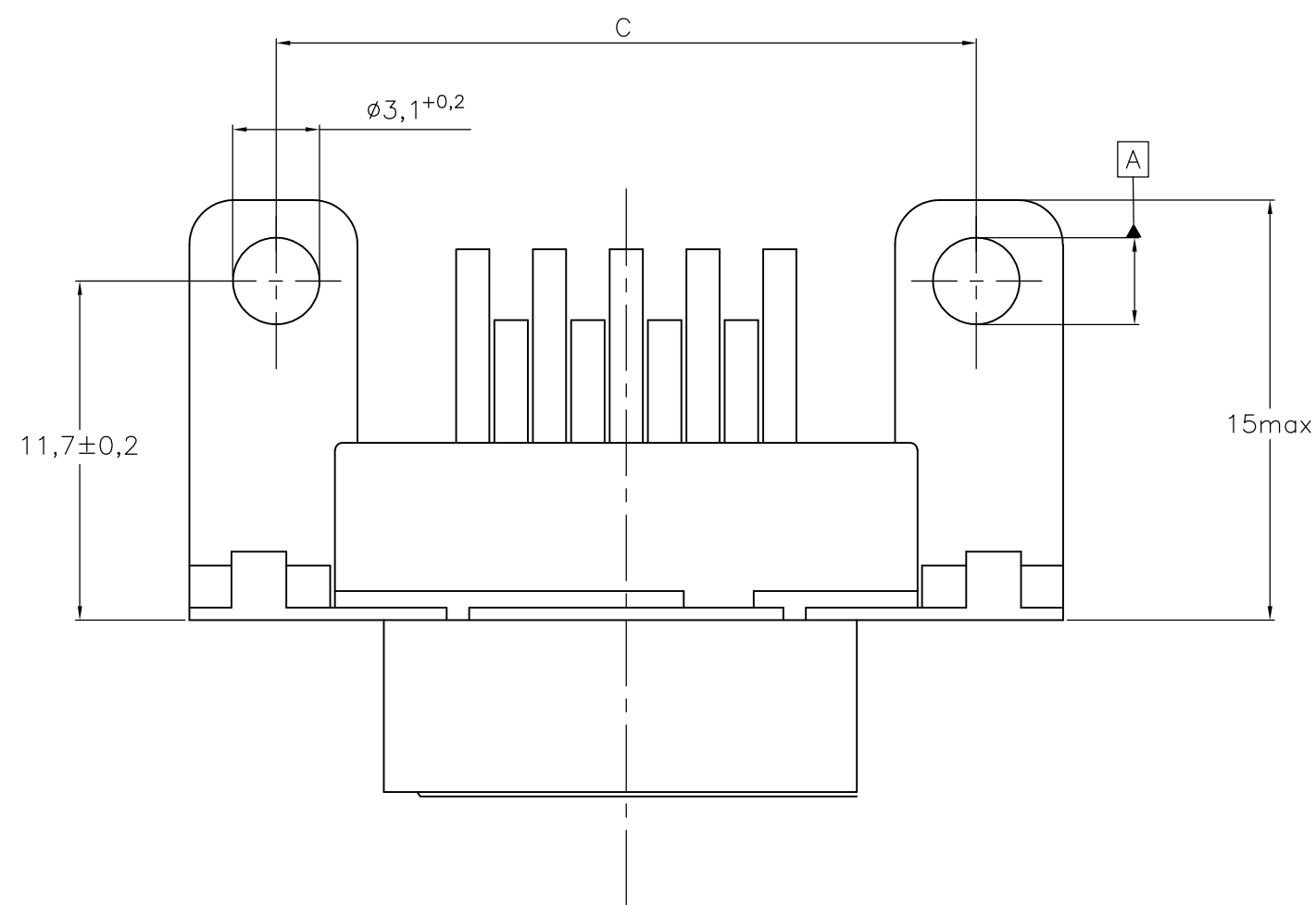


Technical drawing of the front view of a 12-pin D-sub connector. The drawing shows a rectangular housing with a central 12-pin female connector. Dimensions are provided in millimeters with tolerances. Key dimensions include: overall width $A_{-0,76}$, overall height $E_{-0,76}$, mounting hole diameter $\varnothing 3^{+0,2}$, mounting hole pitch $1,2^{+0,2}$, and mounting hole offset $0,8(M)$. The central connector has a width $B_{-0,25}$ and a height $D_{-0,25}$. The pin pitch is $2,84$. The drawing also shows a 10° chamfer on the housing and a "CUT-OUT ALLOWED" note. A callout $R2,62_{-0,16}$ points to the top radius of the connector housing.



Technical drawing of a hole in a plate. The hole is shaded with diagonal lines. The diameter of the hole is $\varnothing 0,32$ with a tolerance of $\pm 0,05$. The diameter of the hole is also indicated as $0,30 \pm 0,03$. The distance from the center of the hole to the right edge of the plate is $0,60 \pm 0,05$. The distance from the center of the hole to the bottom edge of the plate is $0,30 \pm 0,03$. A dashed circle represents the envelope circle (Umhülungskreis) of the hole, labeled with an arrow and the text "Umhülungskreis".



Sachnr./Ordernr V23529–	Y	Ordercode	Contacts	Mass/Dimension					
		Sachnr	Polzahl	A	B	C	D	E	F
Axx1x–Bxxx–+	2,84	..–Bx09–+	09	31,19	16,46	25,0 ^{+0,12} _{–0,13}	8,02	12,93	2,74
Axx2x–Bxxx–+	2,54	..–Bx15–+	15	39,52	24,79	33,3 ^{+0,15} _{–0,1}			2,74
		..–Bx25–+	25	53,42	38,5	47,04 ^{+0,13} _{–0,13}			2,76
		..–Bx37–+	37	69,7	54,96	63,5 ^{+0,13} _{–0,13}			2,76

– Anforderungsstufe/Performance level ¹⁾

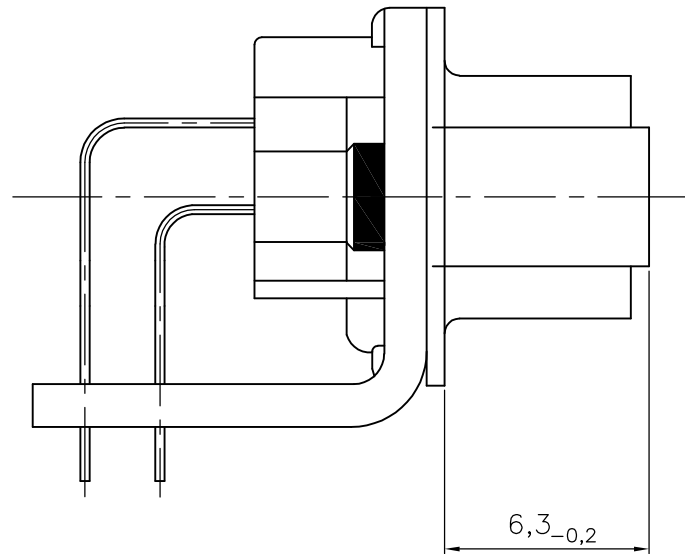
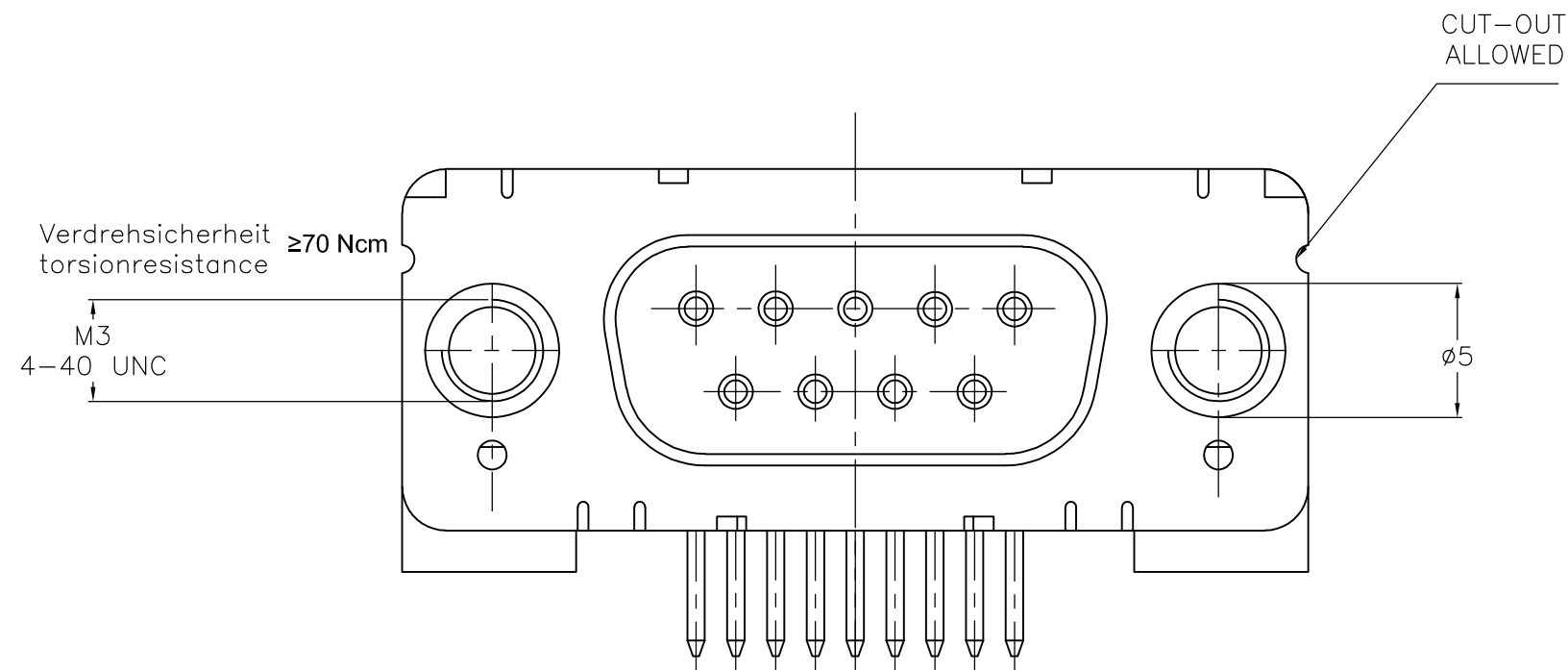
OLD PN: V23529-A*****B***-* -7427

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GNANI JADAV A E		07JAN10		 TE Connectivity	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK K.MALCZYK		APVD K.MALCZYK	
		0 PLC ± -		NAME		Buchsenleiste-90° Lötanschluss (Variant 2 und 3) ¹⁾ Socketconnector-90° solderversion (Type 2 and 3) ¹⁾	
		1 PLC ± -		PRODUCT SPEC			
		2 PLC ± -		APPLICATION SPEC			
		3 PLC ± -		SIZE			
4 PLC ± -		ANGLES ± -		DRAWING NO		RESTRICTED TO	
MATERIAL		FINISH		WEIGHT		A2 00779 C-1393478-4	
-		-		-		-	
CUSTOMER DRAWING						SCALE 2:1	
						SHEET 1 of 8	
						REV B3	

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
						APVD
GW	—	—	—	SEE SHEET 1	—	—

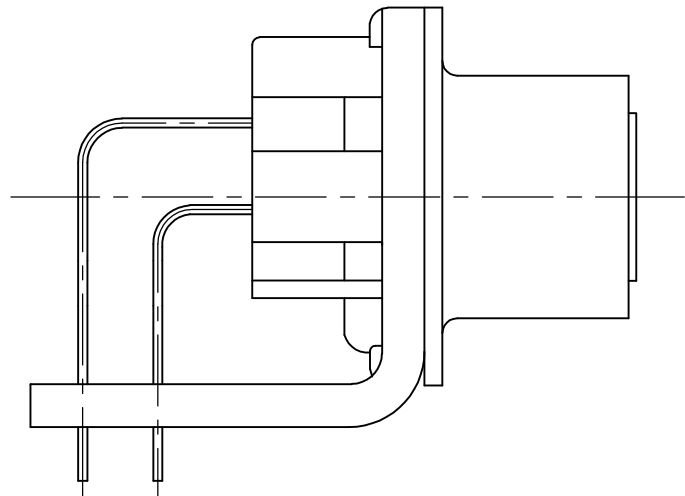
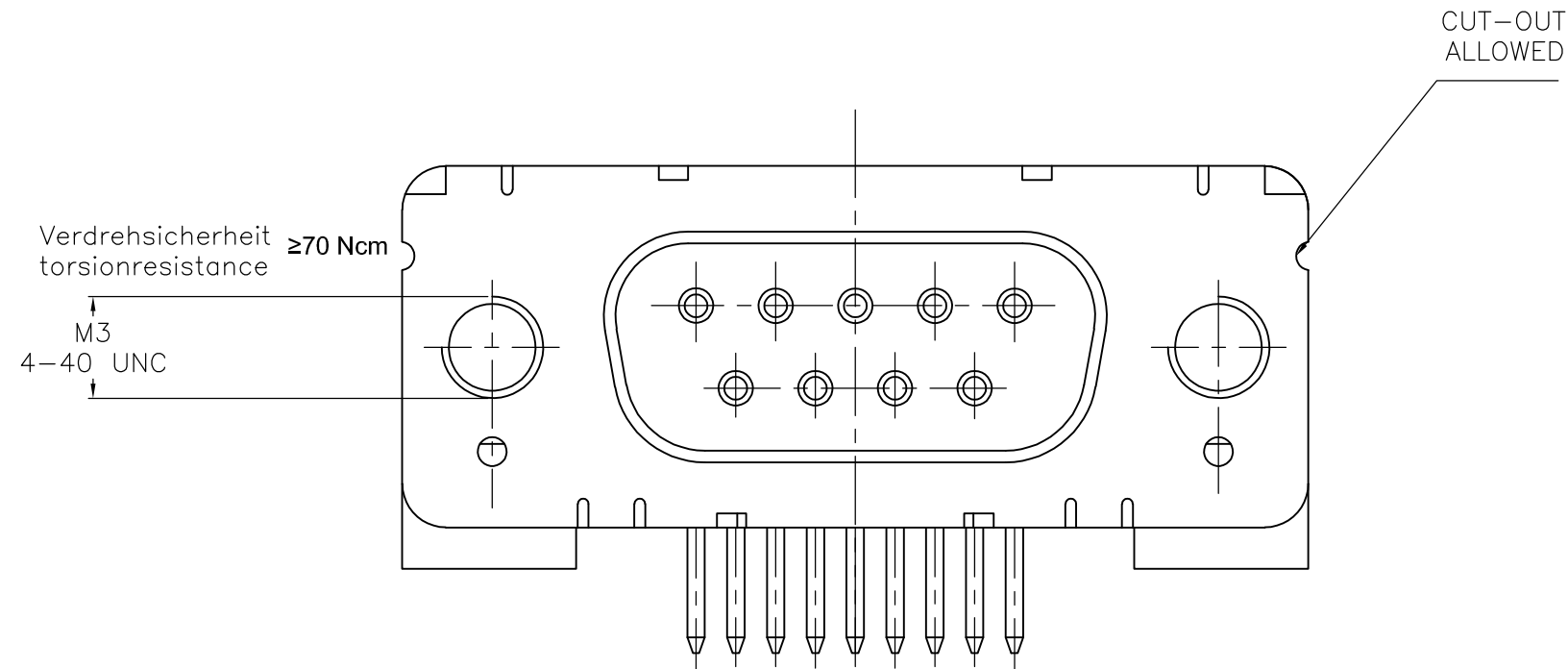
D

mit Gewindebolzen: M3 V23529-A₂xx4-Bxxx-+
with thread lock 4-40 UNC V23529-A₂xx5-Bxxx-+



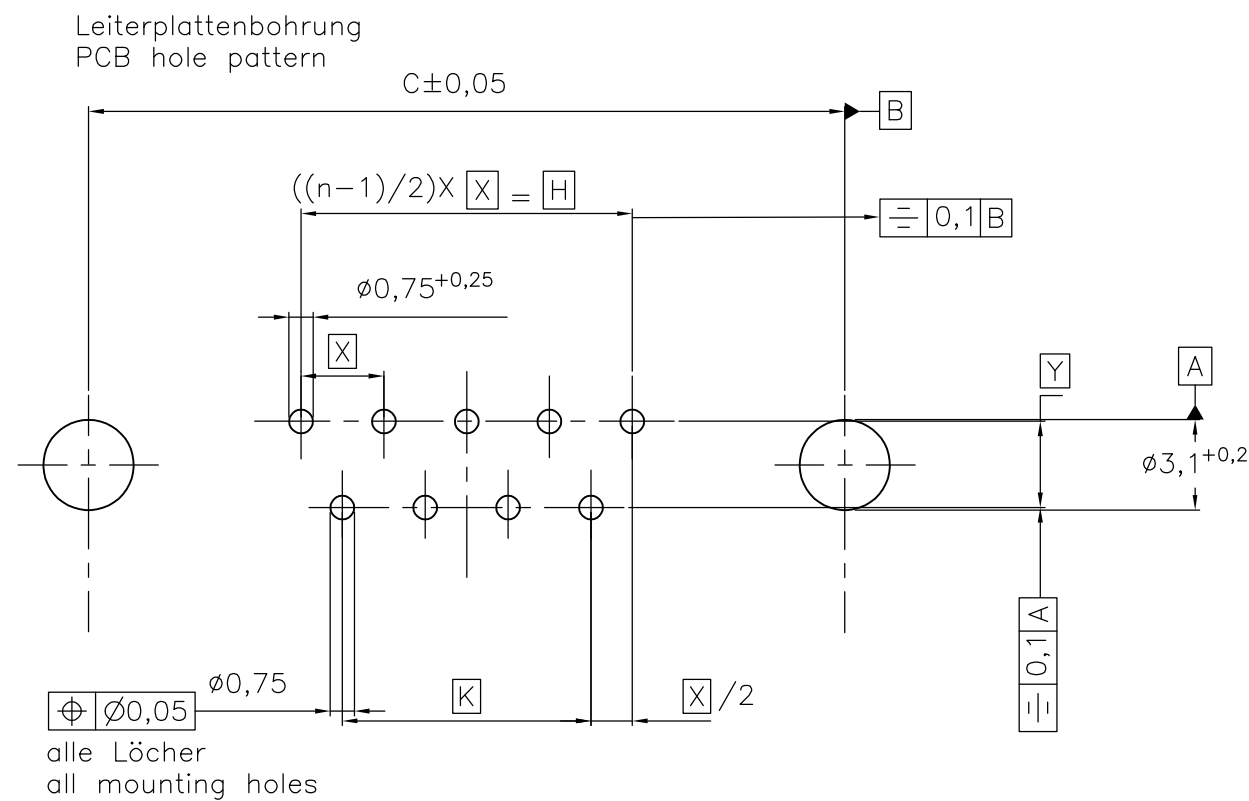
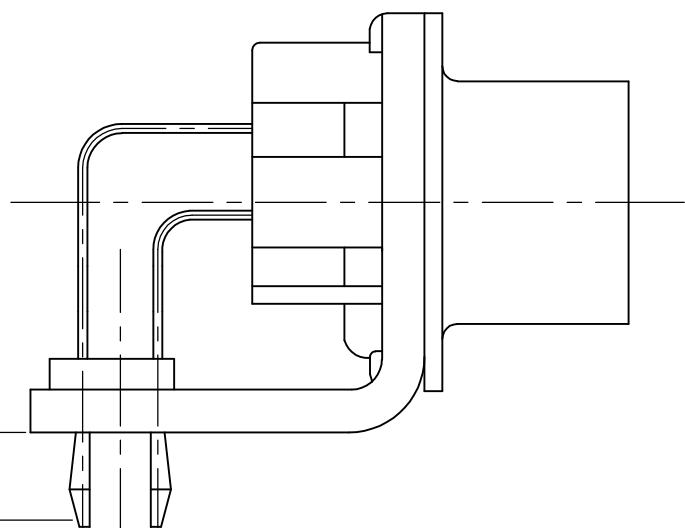
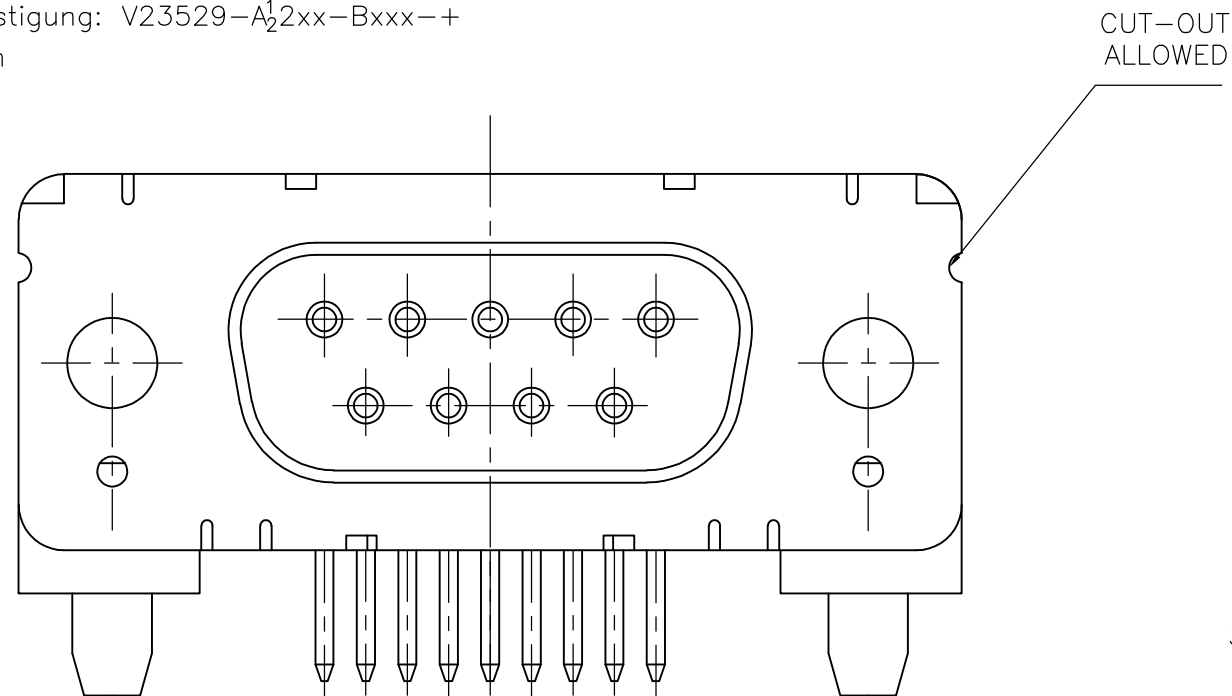
C

mit Gewinde: M3 V23529-A₁xx2-Bxxx-+
with thread 4-40 UNC V23529-A₁xx3-Bxxx-+



B

mit Clipbefestigung: V23529-A₂2xx-Bxxx-+
with snap-in

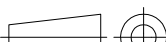


Mass Dimension	Polzahl n Number of contacts n			
	9	15	25	37
C	25	33,3	47,04	63,5
H	10,96	19,18	33,12	49,68
K	8,22	16,44	30,36	46,92
X	2,74	2,74	2,76	2,76
Y	2,54 ^{oder} 2,84			

1) nach DIN 41652 T,2 UND T,4
according to DIN 41652 p,2 AND p,4

OLD PN: V23529-A*****B***-*-7427

A

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GNANI JADAV A E 07JAN10		 TE Connectivity				
DIMENSIONS: mm		CHK K.MALCZYK						
	TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD K.MALCZYK		NAME Buchsenleiste-90° LötAusführung (Variant 2 und 3) ¹⁾ Socketconnector-90° solder version (Type 2 and 3) ¹⁾			
			PRODUCT SPEC					
			APPLICATION SPEC					
			—					
MATERIAL —	FINISH —		WEIGHT —		SIZE A2	CAGE CODE 00779	DRAWING NO C=1393478-4	RESTRICTED TO —
			CUSTOMER DRAWING		SCALE 2:1		SHEET 2 of 8	REV B3

D

C

1393478-4

B

A

mit Gewindebolzen: M3 V23529-A₃xx4-Bxxx-+
with thread lock 4-40 UNC V23529-A₃xx5-Bxxx-+

Verdrehsicherheit
torsionresistance
≥70 Ncm

M3
4-40 UNC

CUT-OUT
ALLOWED

ø5

mit Gewinde: M3 V23529-A₃xx2-Bxxx-+
with thread 4-40 UNC V23529-A₃xx3-Bxxx-+

Verdrehsicherheit
torsionresistance
≥70 Ncm

M3
4-40 UNC

CUT-OUT
ALLOWED

mit Clipbefestigung: V23529-A₃2xx-Bxxx-+
with snap-in

CUT-OUT
ALLOWED

Leiterplattenbohrung
PCB hole pattern

C_{±0,05}

B

0,1B

((n-1)/2)X X = H

ø0,75^{+0,25}

X

3,1

2,8

10

ø0,75

ø0,05

alle Löcher
all mounting holes

Y

A

ø3,1^{+0,2}

K

X/2

Isolierte Fläche
Insulated surface

6,3_{-0,2}

1)
nach DIN 41652 T,2 UND T,4
according to DIN 41652 p,2 AND p,4

OLD PN: V23529-A****-B***-*-7427

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN
GNANI JADAV A E
07JAN10

CHK
K.MALCZYK

APVD
K.MALCZYK

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

DIMENSIONS:
mm

0 PLC ± -

1 PLC ± -

2 PLC ± -

3 PLC ± -

4 PLC ± -

ANGLES ± -

FINISH

FINISH

SCALE
2:1

SHEET
4 of 8

REV
B3

TE Connectivity

Buchsenleiste-90° Lötanschluss
(Variant 2 und 3)¹⁾
Socketconnector-90° solder version
(Type 2 and 3)¹⁾

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1393478-4

RESTRICTED TO

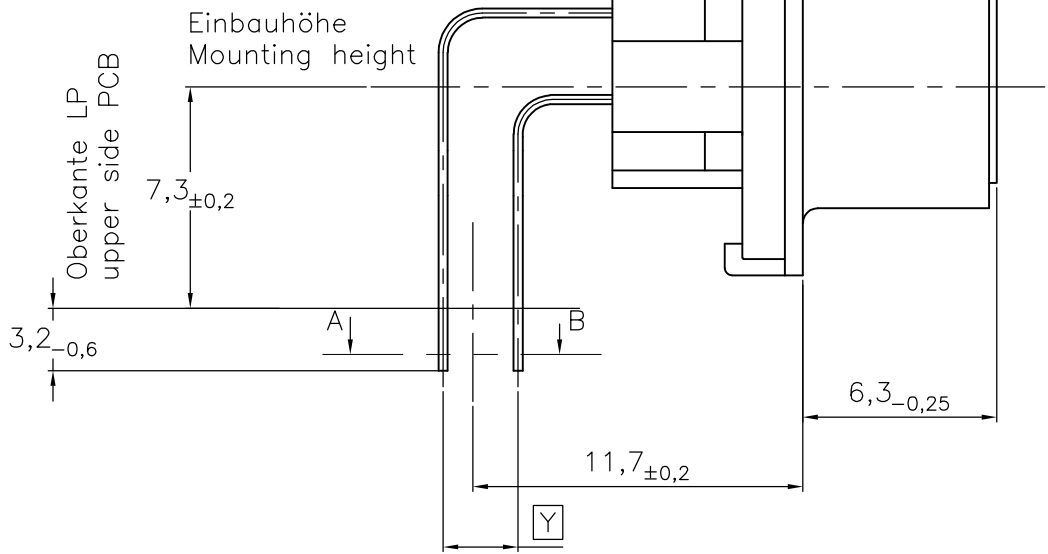
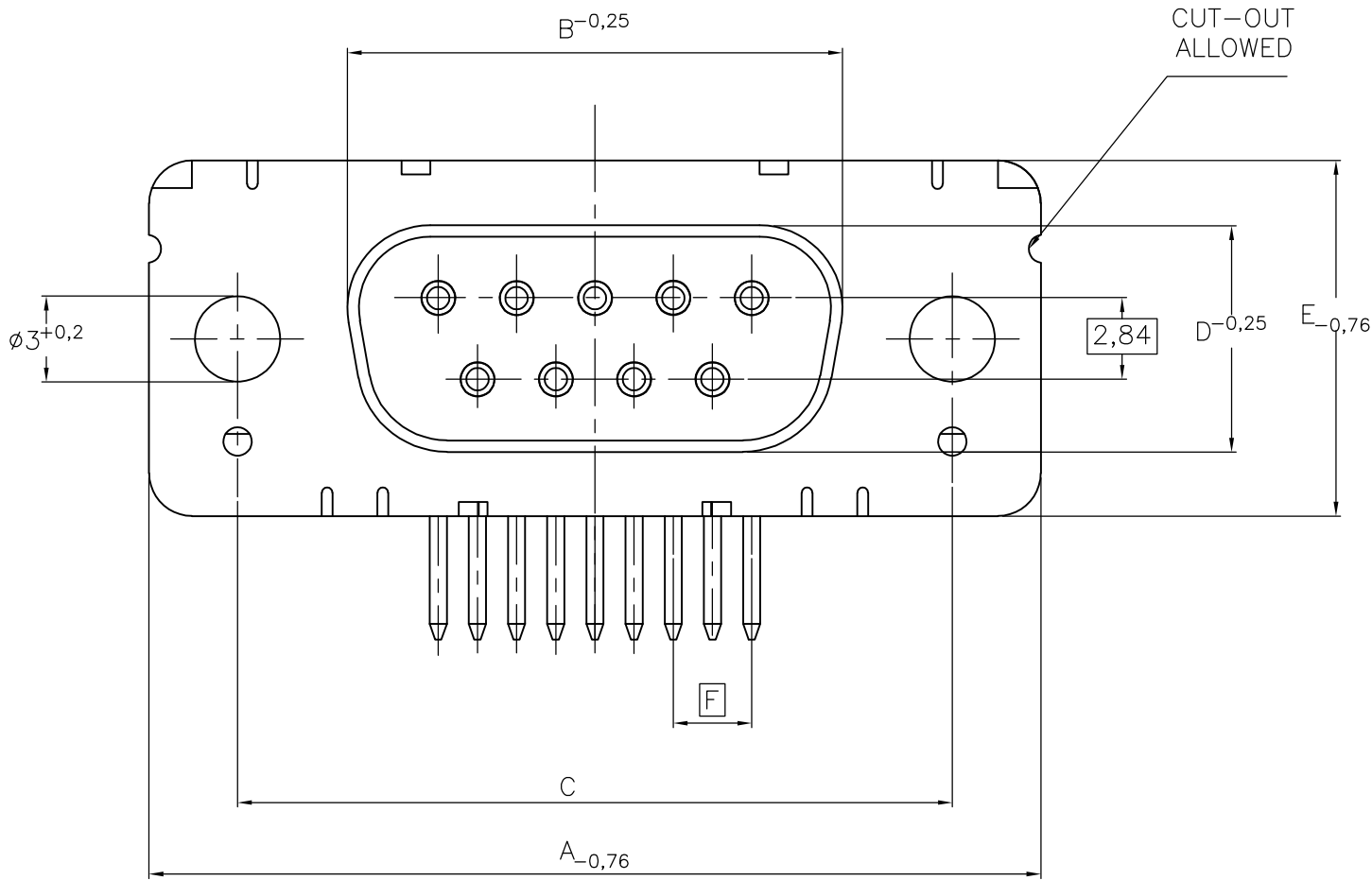
1471-9 (3/11)

1393478-4

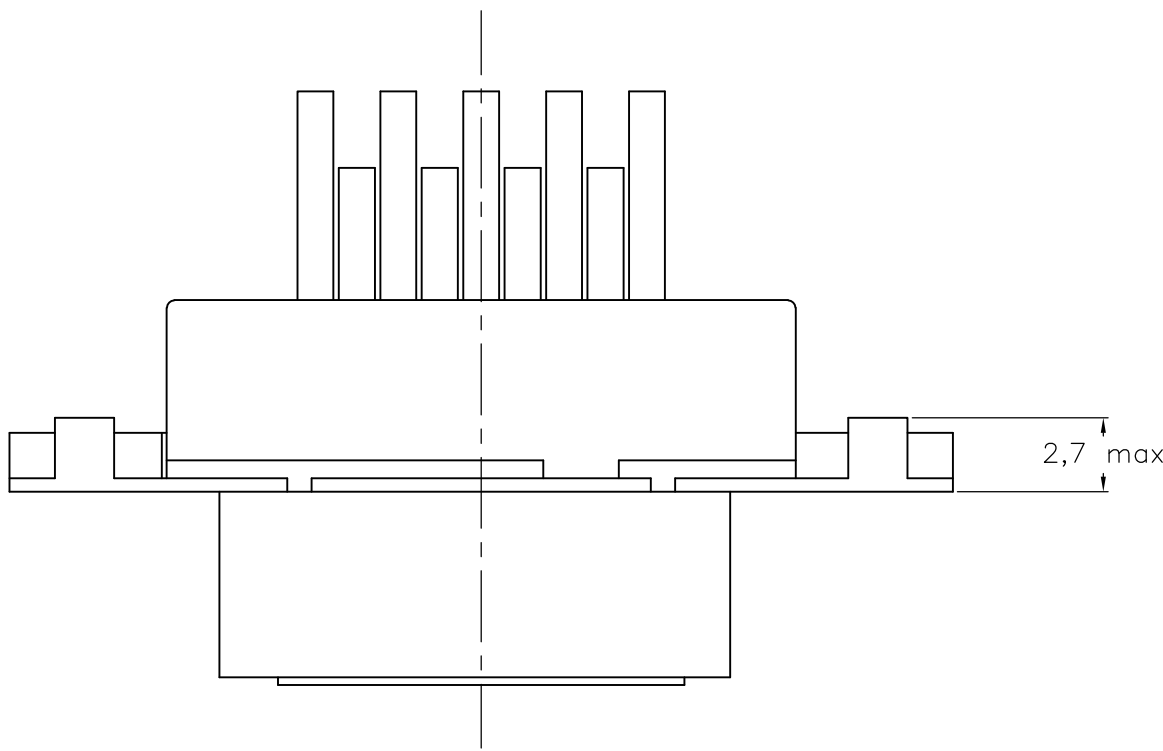
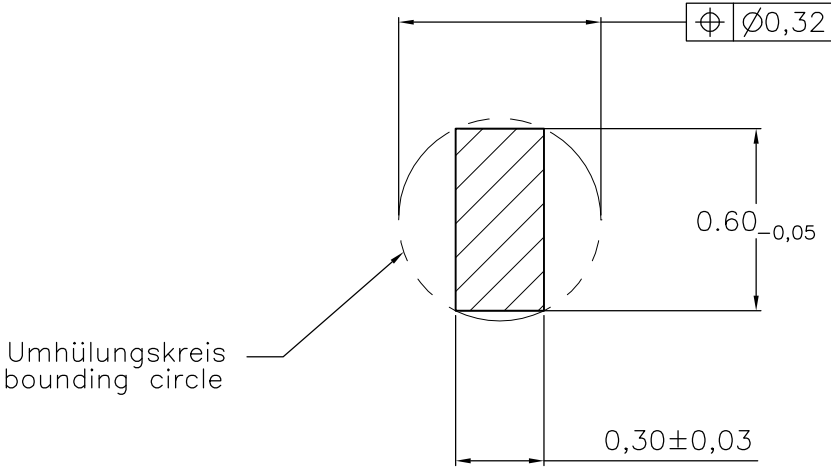
1393478-4

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	DWN
GW	—	—	—	SEE SHEET 1	—	—
		—	—	—	—	—

Standardausführung ohne Winkel: V23529–A50x1–Bxxx–+
Standardversion without bracket



Schnitt AB des Lötanschlusses
Cross-section AB of solderpin
(20:1)



Sachnr/Ordernr	Y
V23529–	
A501x–Bxxx–+	2,84
A502x–Bxxx–+	2,54

Ordercode	Contacts	Mass/Dimension					
		A	B	C	D	E	F
..–Bx09–+	09	31,19	16,46	25,0 +0,12 –0,13	8,02	12,93	2,74
..–Bx15–+	15	39,52	24,79	33,3 +0,15 –0,1			2,74
..–Bx25–+	25	53,42	38,5	47,04 +0,13 –0,13			2,76
..–Bx37–+	37	69,7	54,96	63,5 +0,13 –0,13			2,76

Anforderungsstufe/Performance level 1)
OLD PN: V23529–A*****B***–*–7427

1) nach DIN 41652 T.2 und T.4
according to DIN 41652 p.2 and p.4

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

MATERIAL
—

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	±	—
1 PLC	±	—
2 PLC	±	—
3 PLC	±	—
4 PLC	±	—
ANGLES	±	—

FINISH
—

DWN 07JAN10
GNANI JADAV A E

CHK K.MALCZYK

APVD K.MALCZYK

PRODUCT SPEC

APPLICATION SPEC

WEIGHT —

CUSTOMER DRAWING

TE Connectivity

NAME
Buchsenleiste–90° Lötanschluss
(Variant 2 und 3)¹⁾
Socketconnector–90° solderversion
(Type 2 and 3)¹⁾

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1393478–4

RESTRICTED TO
—

SCALE
2:1

SHEET
5 of 8

REV
B3

1471–9 (3/11)

D

C

B

A

mit Gewindebolzen: M3 V23529–A50x4–Bxxx–+
with thread lock 4–40 UNC V23529–A50x5–Bxxx–+

Verdrehsicherheit
torsionresistance

M3
4–40 UNC

CUT–OUT
ALLOWED

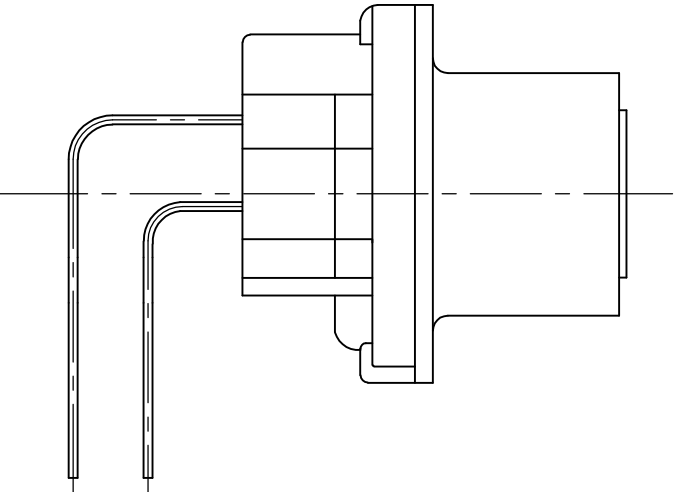
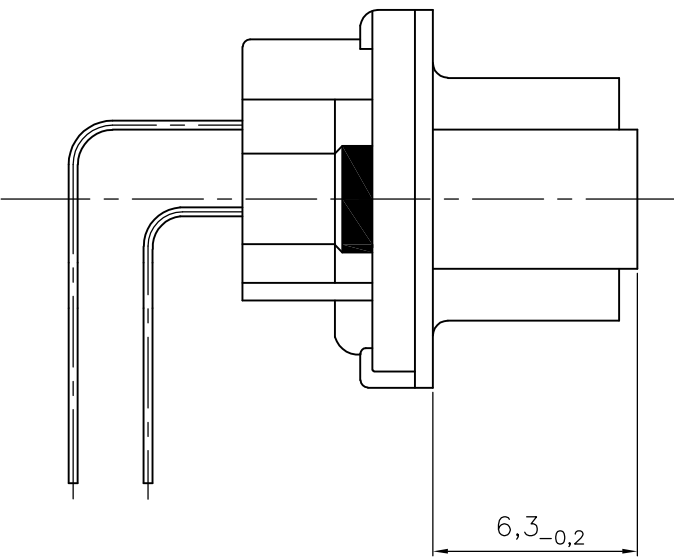
ø5

mit Gewinde: M3 V23529–A50x2–Bxxx–+
with thread 4–40 UNC V23529–A50x3–Bxxx–+

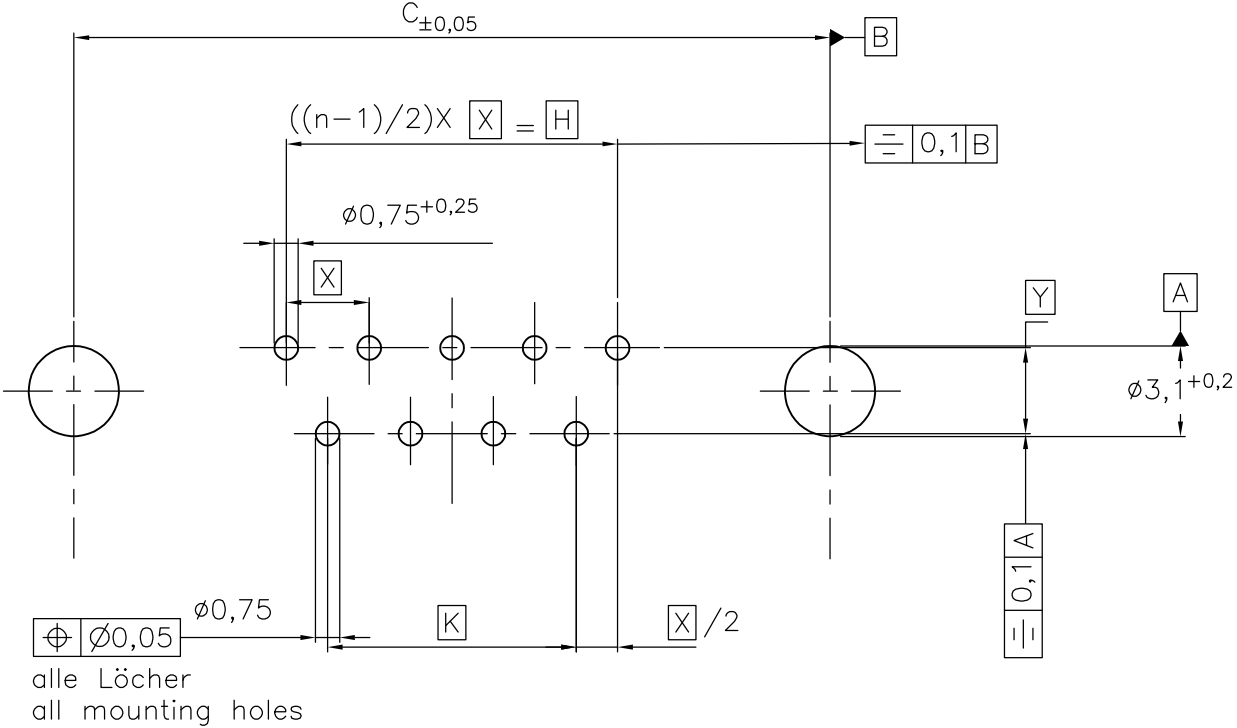
Verdrehsicherheit
torsionresistance

M3
4–40 UNC

CUT–OUT
ALLOWED



Leiterplattenbohrung
PCB hole pattern



Mass Dimension	Polzahl n Number of contacts n			
	9	15	25	37
C	25	33,3	47,04	63,5
H	10,96	19,18	33,12	49,68
K	8,22	16,44	30,36	46,92
X	2,74	2,74	2,76	2,76
Y	2,54 ^{oder} 2,84			

1) nach DIN 41652 T,2 UND T,4
according to DIN 41652 p,2 AND p,4

OLD PN: V23529–A****–B***–*–7427

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

MATERIAL
—

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± –
4 PLC ± –
ANGLES ± –
FINISH
—

DWN
GNANI JADAV A E

CHK
K.MALCZYK

APVD
K.MALCZYK

PRODUCT SPEC
—

APPLICATION SPEC
—

WEIGHT
—

CUSTOMER DRAWING

07JAN10

TE Connectivity

NAME
Buchsenleiste–90° L\u00f6tausf\u00fchrung
(Variant 2 und 3)¹⁾
Socketconnector–90° solderversion
(Type 2 and 3)¹⁾

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1393478–4

RESTRICTED TO
—

SCALE
2:1

SHEET
6 of 8

REV
B3

D

C

B

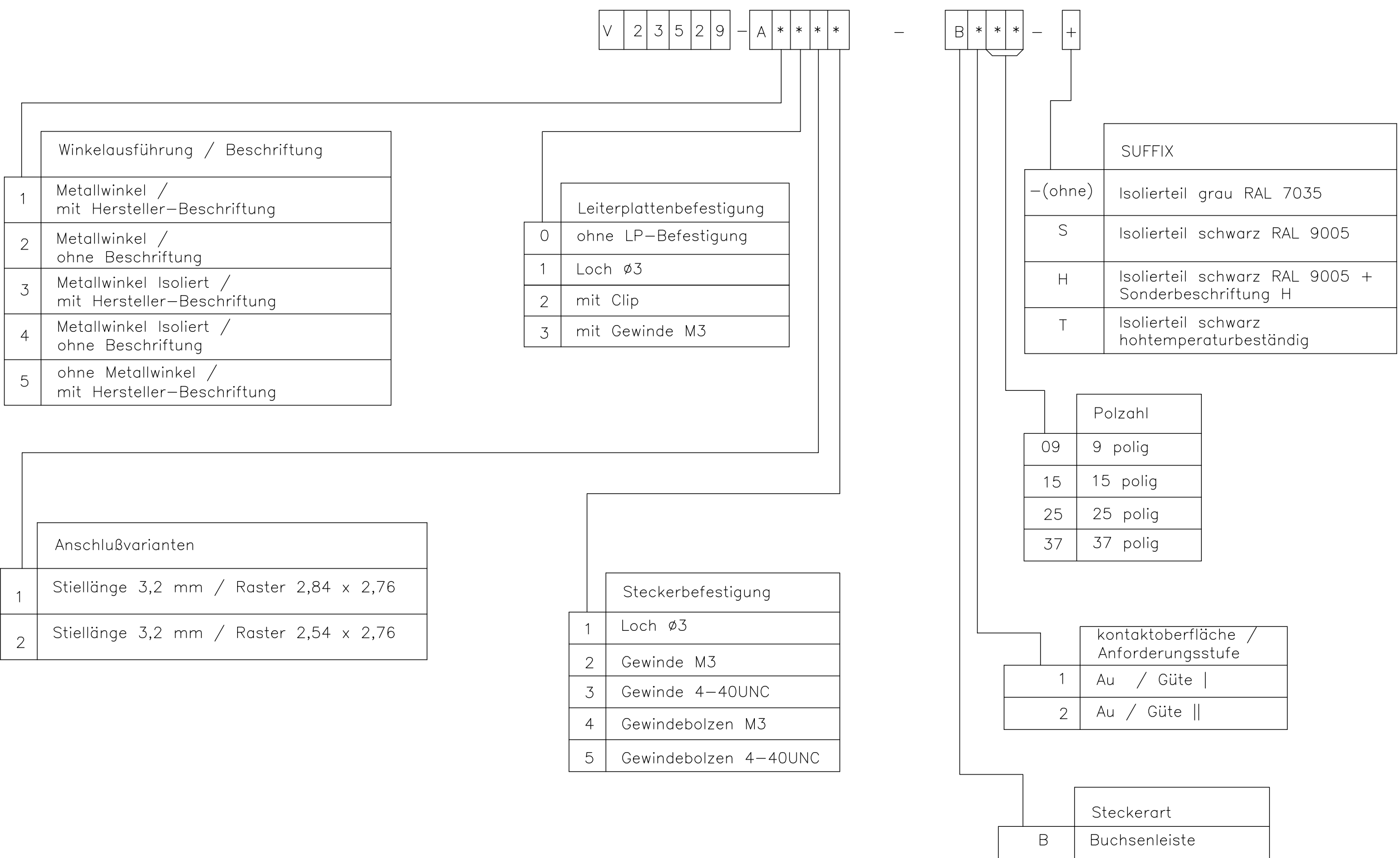
A

D

C

B

A



1) nach DIN 41652 T.2 und T.4
according to DIN 41652 p.2 and p.4

OLD PN: V23529-A*****B***-*-7427

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN

GNANI JADAV A E

07JAN10

CHK

K.MALCZYK

—

APVD

K.MALCZYK

—

PRODUCT SPEC

—

APPLICATION SPEC

—

WEIGHT

—

CUSTOMER DRAWING

DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	±	—
1 PLC	±	—
2 PLC	±	—
3 PLC	±	—
4 PLC	±	—
ANGLES	±	—

MATERIAL

—

FINISH

—

TE Connectivity

Buchsenleiste-90° LötAusführung
(Variant 2 und 3)¹⁾
Socketconnector-90° solderversion
(Type 2 and 3)¹⁾

SIZE

A2

CAGE CODE

00779

DRAWING NO

C=1393478-4

RESTRICTED TO

—

SCALE

2:1

SHEET

7 of 8

REV

B3

LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
GW	—		—	SEE SHEET 1	—	—	—

Active part numbers. Contact Tyco Electronics for other configuration availability

Old Part Number	TE Part Number		PRIMARY	SECONDARY
V23529-A1111-B209	1393478-4			
V23529-A1111-B215	1393478-5			
V23529-A1111-B225	1393478-6			
V23529-A1111-B237	1393478-7			
V23529-A1112-B215	1393478-7	OBSOLETE		
V23529-A1112-B225	1393478-8	OBSOLETE		
V23529-A1115-B209	2-1393478-5			
V23529-A1115-B215	2-1393478-6			
V23529-A1115-B225	2-1393478-7	OBSOLETE		
V23529-A1115-B237	2-1393478-8			
V23529-A1121-B209	3-1393478-8			
V23529-A1121-B215	3-1393478-9			
V23529-A1121-B225	4-1393478-0			
V23529-A1121-B237	4-1393478-1			
V23529-A1122-B109	4-1393478-8	OBSOLETE		
V23529-A1122-B115	4-1393478-9	OBSOLETE		
V23529-A1122-B209	5-1393478-0			
V23529-A1122-B215	5-1393478-1	OBSOLETE		
V23529-A1122-B225	5-1393478-2	OBSOLETE		
V23529-A1123-B209	5-1393478-8			
V23529-A1123-B215	5-1393478-9			
V23529-A1123-B225	6-1393478-0			
V23529-A1123-B237	6-1393478-1			
V23529-A1124-B109	6-1393478-9			
V23529-A1124-B225	7-1393478-2			
V23529-A1125-B125	7-1393478-7	OBSOLETE		
V23529-A1125-B209	7-1393478-8			
V23529-A1125-B225	7-1393478-9			
V23529-A1212-B209	8-1393478-9			
V23529-A1212-B215	9-1393478-0	OBSOLETE		
V23529-A1212-B225	9-1393478-1	OBSOLETE		
V23529-A1213-B215	9-1393478-5	OBSOLETE		
V23529-A1215-B209	1393479-1			
V23529-A1215-B225	1393479-3	OBSOLETE		
V23529-A1221-B209	1-1393479-0	OBSOLETE		
V23529-A1221-B215	1-1393479-1	OBSOLETE		
V23529-A1221-B225	1-1393479-2	OBSOLETE		
V23529-A1221-B237	1-1393479-3	OBSOLETE		
V23529-A1222-B109	2-1393479-3			
V23529-A1222-B115	2-1393479-4	OBSOLETE		
V23529-A3223-B225	1-1393480-0	SUPERSEDED	1-106507-2	
V23529-A3212-B215	1393480-2	OBSOLETE		
V23529-A3213-B209	1393480-6	OBSOLETE		
V23529-A3111-B209	6-1393479-8	OBSOLETE		

Old Part Number	TE Part Number		PRIMARY	SECONDARY
V23529-A3111-B215	6-1393479-9	OBSOLETE		
V23529-A3122-B209	6-1393487-0	SUPERSEDED	7-106505-2	
V23529-A3111-B225	7-1393479-0	OBSOLETE		
V23529-A3113-B225	7-1393479-5	OBSOLETE		
V23529-A3115-B209	8-1393479-2	OBSOLETE		
V23529-A3121-B209	8-1393479-4	SUPERSEDED	5-106505-2	
V23529-A3121-B225	8-1393479-5	SUPERSEDED	5-106507-2	
V23529-A3123-B225	9-1393479-6	SUPERSEDED	6-106507-2	
V23529-A1222-B209	2-1393479-6			
V23529-A1222-B215	2-1393479-7			
V23529-A1222-B225	2-1393479-8			
V23529-A1222-B237	2-1393479-9			
V23529-A1223-B209	3-1393479-8			
V23529-A1223-B215	3-1393479-9			
V23529-A1223-B225	4-1393479-0			
V23529-A1223-B237	4-1393479-1			
V23529-A1224-B209	4-1393479-8			
V23529-A1224-B215	4-1393479-9			
V23529-A1224-B225	5-1393479-0	OBSOLETE		
V23529-A1224-B237	5-1393479-1			
V23529-A1225-B209	5-1393479-9			
V23529-A1225-B215	6-1393479-0			
V23529-A1225-B225	6-1393479-1			
V23529-A1225-B237	6-1393479-2	OBSOLETE		
V23529-A3113-B209	7-1393479-3	OBSOLETE		
V23529-A3113-B237	7-1393479-6	OBSOLETE		
V23529-A3121-B215	5-1393487-6	SUPERSEDED	5-106506-2	
V23529-A3121-B237	5-1393487-7	SUPERSEDED	5-106508-2	
V23529-A3122-B215	9-1393479-2	SUPERSEDED	7-106506-2	
V23529-A3122-B225	9-1393479-3	SUPERSEDED	7-106507-2	
V23529-A3122-B237	6-1393487-1	SUPERSEDED	7-106508-2	
V23529-A3125-B209	6-1393487-5	SUPERSEDED	8-106505-2	
V23529-A3125-B215	6-1393487-6	SUPERSEDED	8-106506-2	
V23529-A3125-B225	6-1393487-7	SUPERSEDED	8-106507-2	
V23529-A3125-B237	6-1393487-8	SUPERSEDED	8-106508-2	
V23529-A3212-B225	1393480-3	OBSOLETE		
V23529-A3221-B209	7-1393487-3	SUPERSEDED	106505-2	
V23529-A3221-B215	7-1393487-4	SUPERSEDED	106506-2	
V23529-A3221-B225	7-1393487-5	SUPERSEDED	106507-2	
V23529-A3221-B237	7-1393487-6	SUPERSEDED	106508-2	
V23529-A3222-B209	8-1393487-1	SUPERSEDED	2-106505-2	
V23529-A3222-B215	8-1393487-2	SUPERSEDED	2-106506-2	
V23529-A3222-B215	8-1393487-3	SUPERSEDED	2-106507-2	
V23529-A3222-B225	8-1393487-4	SUPERSEDED	2-106508-2	
V23529-A3225-B209	1-1393480-2	SUPERSEDED	3-106505-2	
V23529-A3225-B215	1-1393480-3	SUPERSEDED	3-106506-2	
V23529-A3225-B225	8-1393487-8	SUPERSEDED	3-106507-2	
V23529-A3225-B237	8-1393487-9	SUPERSEDED	3-106508-2	

OLD PN: V23529-A****-B***-*-7427

1) nach DIN 41652 T.2 und T.4
according to DIN 41652 p.2 and p.4

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

OBSOLETE

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

MATERIAL
-

FINISH
-

DWN
GNANI JADAV A E

CHK
K.MALCZYK

APVD
K.MALCZYK

PRODUCT SPEC
-

APPLICATION SPEC
-

WEIGHT
-

CUSTOMER DRAWING

07JAN10

-

-

-

-

-

-

SCALE
2:1

SHEET
8 of 8

REV
B3

TE Connectivity

NAME
Buchenleiste-90° LötAusführung
(Variant 2 und 3)¹⁾
Socketconnector-90° solderversion
(Type 2 and 3)¹⁾

SIZE
A2

CAGE CODE
00779

DRAWING NO
C=1393478-4

RESTRICTED TO
-

1471-9 (3/11)