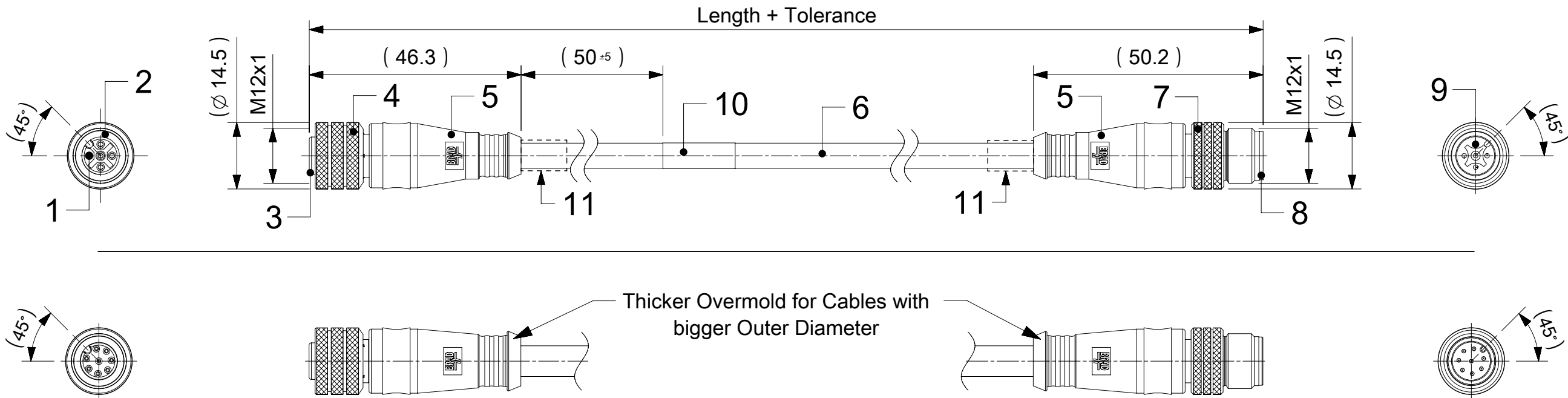


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

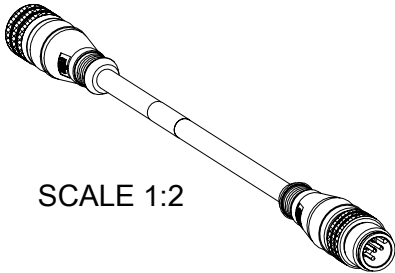
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67

TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
FEMALE								
MALE								
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								



SCALE 1:2

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE SHEET 2	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE Au OVER Ni
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	---	---
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585			molex								
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR MA STR XM DE											
ANGULAR TOL ± 1.0 °															
4 PLACES		±		EC NO: 823299 DRWN: VISHAH2 2025/05/16 CHK'D: GGA 2025/05/29 APPR: GGA 2025/05/29			PRODUCT CUSTOMER DRAWING								
3 PLACES		±													
2 PLACES		± 0.05													
1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/19 APPR: RSILLER 2016/12/08			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION				
0 PLACES		± 0.5					1200668165		PSD	000	A9				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER	SHEET NUMBER		
						A3-SIZE		120066		SEE PART LIST		GENERAL MARKET		1 OF 5	

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

88X030XXXXXX

88=Micro-Change
M12x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

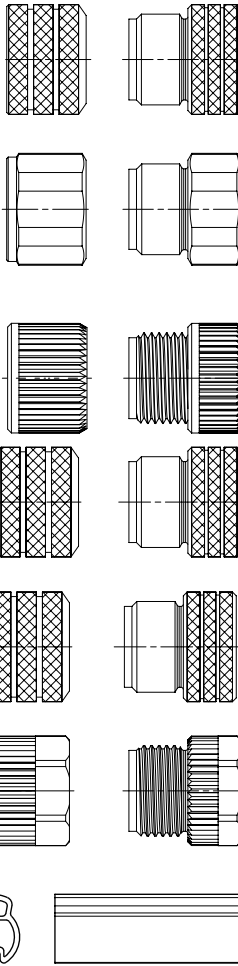
Options

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent
(Cables Ixx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.)

COUPLING NUT
FEMALE MALE



CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF FINISHED LENGTH

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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585

EC NO: 823299
DRWN: VISHAH2
CHK'D: GGA
APPR: GGA

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING
A3-SIZE

SERIES
120066

MATERIAL NUMBER
SEE PART LIST

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 5

DOCUMENT NUMBER
1200668165

DOC TYPE
PSD

DOC PART
000

REVISION
A9

CABLE INFORMATION

(for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
A09	4	22AWG	PVC YELLOW	UL 2661	I/II A/B 80°C/300V	-	-	-	-
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E57	5	0.34mm²	PVC GREY	-	-	-	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
A8K03	4 / 5	18AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, >10xO.D.	-15°C to +105°C, >15xO.D.	2 000 000 cycles, >15xO.D.	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585

EC NO: 823299

DRWN: VISHAH2

CHK'D: GGA

APPR: RSILLER

2025/05/16

2025/05/29

2025/05/29

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/09/19

2016/12/08

DOCUMENT NUMBER

1200668165

DOC TYPE

PSD

DOC PART

000

REVISION

A9

SHEET NUMBER

3 OF 5

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120066

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

	10	9	8	7	6	5	4	3	2	1		
F	PART LIST										F	
	Part No.	Engineering No.	Cable Length	Part No.	Engineering No.	Cable Length	Part No.	Engineering No.	Cable Length	Part No.	Engineering No.	Cable Length
	A09			I03			K03			K05		
	1200660166	883030A09M010	1m	1200070480	884030I03M010	1m	1200668001	884030K03M110	11m	1200660692	884030K05M050	5m
	1200660261	884030A09M005	0.5m	1200070481	884030I03M020	2m	1200660904	884030K03M120	12m	1200668615	884030K05M050H	5m
	1200660262	884030A09M006	0.6m	1200668637	884030I03M020Y	2m	1200660905	884030K03M140	14m	1200660693	884030K05M060	6m
	1200660266	884030A09M010	1m	1200071627	884030I03M0205	2m	1200660906	884030K03M150	15m	1200660915	884030K05M070	7m
	1200660269	884030A09M015	1.5m	1200070785	884030I03M030	3m	1200660907	884030K03M160	16m	1200660694	884030K05M080	8m
	1200660271	884030A09M020	2m	1200668372	884030I03M040	4m	1200661543	884030K03M180	18m	1200660695	884030K05M100	10m
	1200660273	884030A09M0208	2m	1200070483	884030I03M050	5m	1200660909	884030K03M200	20m	1200668616	884030K05M100H	10m
E	1200660277	884030A09M030	3m	1200070484	884030I03M060	6m	1200668004	884030K03M240	24m	1200660696	884030K05M120	12m
	1200669113	884030A09M0308	3m	1200070485	884030I03M100	10m	1200660911	884030K03M250	25m	1200660918	884030K05M140	14m
	1200660286	884030A09M0508	5m	1200668638	884030I03M100Y	10m	1200661906	884030K03M500	50m	1200660697	884030K05M150	15m
	1200660291	884030A09M070	7m	1200070961	885030I03M030	3m	1200661664	885030K03M005	0.5m	1200660698	884030K05M180	18m
	1200660294	884030A09M080	8m	1200668642	885030I03M030Y	3m	1200661034	885030K03M010	1m	1200661441	884030K05M190	19m
	1200660434	885030A09M050	5m	1200668165	885030I03M100	10m	1200661035	885030K03M020	2m	1200660921	884030K05M200	20m
	B02			1200669218	885030I03M100Y	10m	1200661036	885030K03M030	3m	1200660922	884030K05M210	21m
	1200660857	884030B02M020	2m	I20			1200661037	885030K03M040	4m	1200660699	884030K05M230	23m
	1200660860	884030B02M030	3m	1200071338	884030I20M030	3m	1200661038	885030K03M050	5m	1200661438	884030K05M250	25m
	1200660862	884030B02M050	5m	I26			1200661039	885030K03M060	6m	1200665368	884030K05M280	28m
D	1200660867	884030B02M100	10m	1200072106	885030I26M005	0.5m	1200661041	885030K03M080	8m	1200660700	884030K05M300	30m
	E52			1200668082	885030I26M006	0.6m	1200661042	885030K03M090	9m	1200661649	884030K05M400	40m
	1200071343	883030E52M003A	0.3m	1200070890	885030I26M010	1m	1200661043	885030K03M100	10m	1200669227	884030K05M500	50m
	1200070956	883030E52M020A	2m	1200668639	885030I26M010Y	1m	1200661685	885030K03M120	12m	1200669228	884030K05M600	60m
	1200071026	884030E52M010A	1m	1200072359	885030I26M015	1.5m	1200661490	885030K03M140	14m	P20		
	1200661434	884030E52M020A	2m	1200668736	885030I26M015Y	1.5m	1200661044	885030K03M150	15m	1200668505	884030P20M010	1m
	1200071624	884030E52M030A	3m	1200070891	885030I26M020	2m	1200661686	885030K03M180	18m	1200668506	884030P20M020	2m
	1200661472	884030E52M050A	5m	1200668640	885030I26M020Y	2m	1200661687	885030K03M230	23m	1200668507	884030P20M050	5m
	1200070867	884030E52M100A	10m	1200668281	885030I26M025	2.5m	1200661684	885030K03M300	30m	1200668508	884030P20M100	10m
	1200070653	884030E52M200A	20m	1200070892	885030I26M030	3m	K05			P82		
C	I03			1200668641	885030I26M030Y	3m	1200660683	884030K05M003	0.3m	1200668773	885030P82M0107	1m
	1200070095	883030I03M003	0.3m	1200071279	885030I26M050	5m	1200660684	884030K05M005	0.5m	1200665012	885030P82M0307	3m
	1200070096	883030I03M006	0.6m	1200668873	885030I26M050Y	5m	1200660686	884030K05M006	0.6m	S19		
	1200070097	883030I03M010	1m	K03			1200660687	884030K05M010	1m	1200661575	888030S19M030	3m
	1200669149	883030I03M010Y	1m	1200660878	884030K03M003	0.3m	1200660688	884030K05M015	1.5m	1200661576	888030S19M050	5m
	1200070098	883030I03M020	2m	1200668003	884030K03M005	0.5m	1200660689	884030K05M020	2m	1200661577	888030S19M100	10m
	1200668632	883030I03M020Y	2m	1200660880	884030K03M006	0.6m	1200660690	884030K05M030	3m	1200661574	888030S19M120	12m
	1200070099	883030I03M030	3m	1200660881	884030K03M010	1m	1200669948	884030K05M032	3.2m	S20		
	1200668633	883030I03M030Y	3m	1200660883	884030K03M020	2m	1200660691	884030K05M040	4m	1200668310	883030S20M005	0.5m
	1200668371	883030I03M040	4m	1200660887	884030K03M030	3m						
B	1200070100	883030I03M050	5m	1200660891	884030K03M040	4m						
	1200668634	883030I03M050Y	5m	1200660895	884030K03M050	5m						
	1200070101	883030I03M100	10m	1200660898	884030K03M060	6m						
	1200070774	884030I03M006	0.6m	1200660899	884030K03M070	7m						
				1200660900	884030K03M080	8m						
				1200660901	884030K03M090	9m						
				1200660902	884030K03M100	10m						
A	DOCUMENT STATUS	P1	RELEASE DATE	2025/05/29	13:28:17							
	FORMAT: master-B-prod-A3		REVISION: J1		DATE: 2021/05/01							
	9		8		7		6		5		4	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585								
mm		1:1		EC NO: 823299 DRWN: VISHAH2 CHK'D: GGA APPR: GGA INITIAL REVISION: DRWN: JMARSZALEK APPR: RSILLER 2025/05/16 2025/05/29 2025/05/29 2016/09/19 2016/12/08								
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL		± 1.0 °										
4 PLACES		±										
3 PLACES		±										
2 PLACES		± 0.05										
1 PLACE		± 0.3										
0 PLACES		± 0.5										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE
						A3-SIZE		120066		1200668165		PSD
										SEE PART LIST		000
										GENERAL MARKET		A9
												4 OF 5

10

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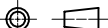
3

2

1

PART LIST

[illegible]

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
DIMENSION UNITS mm		SCALE 1:1		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516585		molex						
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL ± 1.0 °		EC NO: 823299 DRWN: VISHAH2 2025/05/16 CHK'D: GGA 2025/05/29 APPR: GGA 2025/05/29		CSE M12 XP AC FE STR MA STR XM DE								
4 PLACES ±												
3 PLACES ±				PRODUCT CUSTOMER DRAWING								
2 PLACES ± 0.05												
1 PLACE ± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/19 APPR: RSILLER 2016/12/08		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION				
0 PLACES ± 0.5				1200668165		PSD	000	A9				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066		MATERIAL NUMBER SEE PART LIST		CUSTOMER GENERAL MARKET	SHEET NUMBER 5 OF 5	

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/29	13:28:17
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FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

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