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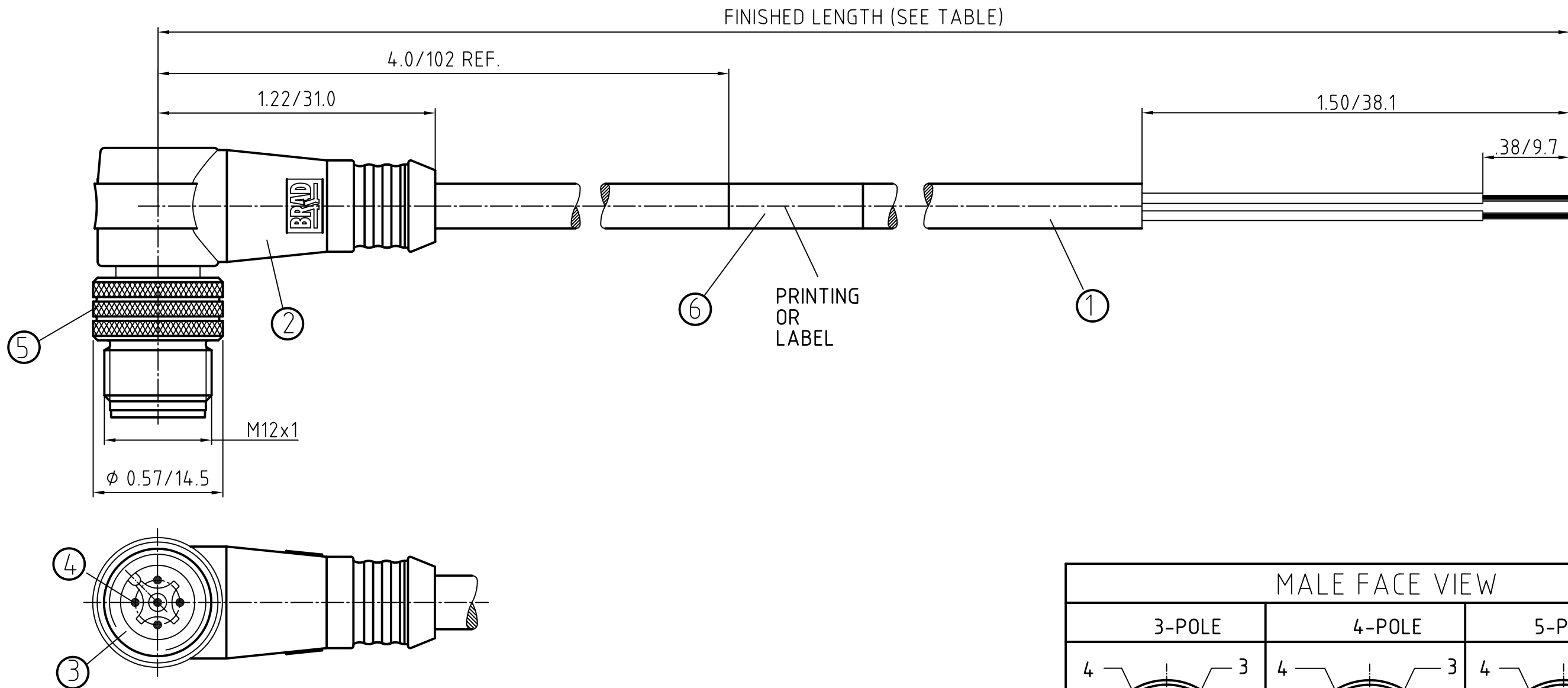
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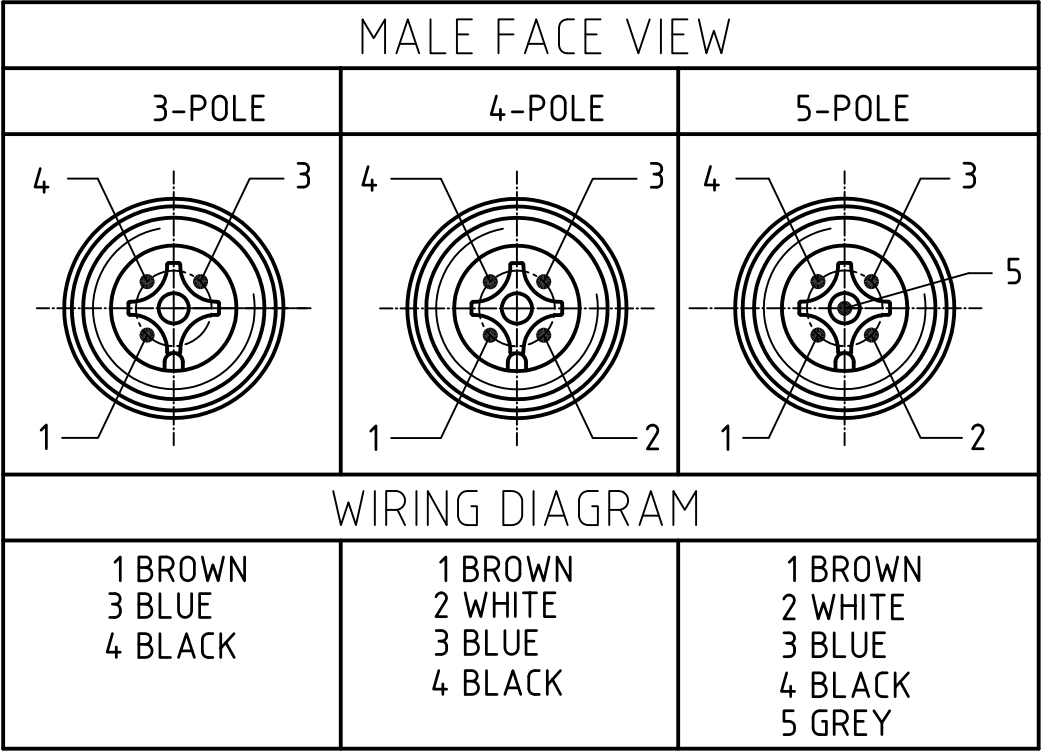
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CONNECTOR SPECIFICATION:

VOLTAGE RATING	250 VAC/VDC
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-20°C TO 80°C

ITEM	COMPONENT	MATERIAL	FINISH
6	LABLE	MYLAR	BLACK/YELLOW
5	COUPLER	BRASS	NICKEL PLATED
4	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	PUR	BLACK
2	OVERMOLD	POLYURETHANE (PUR)	YELLOW
1	CABLE- 22/3-5 (COPPER STRANDING) 3/4/5 CONDUCT. 300V	JACKET: PUR	BLACK



DESCRIPTION EC NO: WEU2010-0284 DRWN: LSTEMMLE 2010/01/20 CHK'D: NS APPR: NSTAUDIG 2010/01/26	QUALITY SYMBOLS	▽ = 0 C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY DATE		MICRO-CHANGE CORDSET 3/4/5-P. M 90 SE 22/3-5 BLACK PUR CABLE				
			4 PLACES	±---	±---	-----						
			3 PLACES	±---	±---	CHECKED BY DATE						
			2 PLACES	±---	±.01	RE 2010/01/21						
			1 PLACE	±0.3	±---	APPROVED BY DATE						
			ANGULAR ± --- °			NSTAUDIG 2010/01/25		MOLEX INCORPORATED	DOCUMENT NO. SD-120065-045		SHEET NO. 1 OF 1	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE SHEET 2						
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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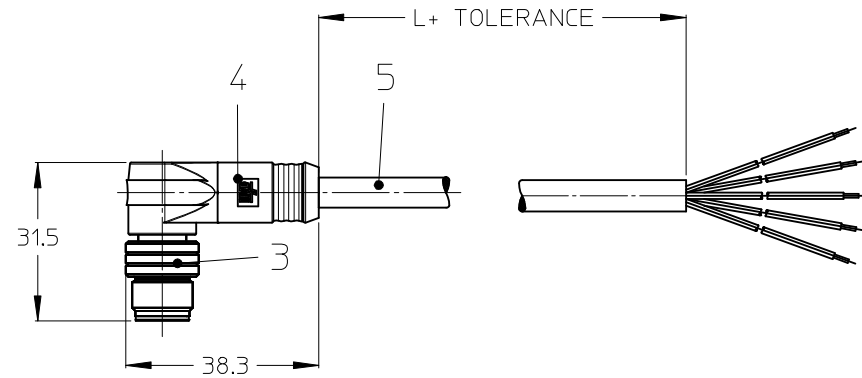
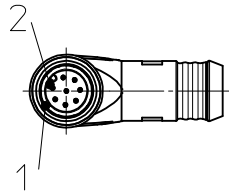
POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
3	1200060288	803007P03M020	6.56' +3.5" -0 [2.0M +89 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
4	1200060592	804007P03M020	6.56' +3.5" -0 [2.0M +89 -0]
4	1200652145	804007P03M040	13.12' +6.5" -0 [4.0M +165 -0]
4	1200060594	804007P03M050	16.40' +6.5" -0 [5.0M +165 -0]
4	1200652146	804007P03M060	19.69' +6.5" -0 [6.0M +165 -0]
4	1200060595	804007P03M100	32.81' +12.5" -0 [10.0M +318 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
5	1200060697	805007P03M020	6.56' +3.5" -0 [2.0M +89 -0]
5	1200060699	805007P03M040	13.12' +6.5" -0 [4.0M +165 -0]
5	1200658186	805007P03M050	16.40' +6.5" -0 [5.0M +165 -0]
5	1200652149	805007P03M060	19.69' +6.5" -0 [6.0M +165 -0]
5	1200655006	805007P03M100	32.81' +12.5" -0 [10.0M +318 -0]

DESCRIPTION EC NO: WEU2010-0284 DRWN: LSTEMMLE 2010/01/20 CHKD: NS APPR: NSTAUDIG 2010/01/26	QUALITY SYMBOLS ▽ = 0 C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY DATE		MICRO-CHANGE CORDSET 3/4/5-P. M 90 SE 22/3-5 BLACK PUR CABLE				
		4 PLACES	±---	±---	CHECKED BY DATE						
		3 PLACES	±---	±---	RE 2010/01/21						
		2 PLACES	±---	±.01	APPROVED BY DATE		molex MOLEX INCORPORATED				
		1 PLACE	±0.3	±---	NSTAUDIG 2010/01/25						
		ANGULAR ± --- °			MATERIAL NO. SEE TABLE						DOCUMENT NO. SD-120065-045
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
		1	REV								

RIGHTANGLE PLUG MALE



NOTES:

TEMPERATURE RANGE	SEE TABLE ON PAGE 2
CONTACT CURRENT RATING	3-5 POLES 4A 8 POLES 2A
VOLTAGE RATING	3-4 POLES 250V 5 POLES 60V 8 POLES 30V
PROTECTION CLASS	IP 67

TOLERANCES

≤ 1m	+20/-10mm
1m - 5m	± 25mm
5m - 10m	± 30mm
> 10m	± 30mm
> 20m	± 50mm

3 WIRE	4 WIRE	5 WIRE	8 WIRE
PIN # WIRE	PIN # WIRE	PIN # WIRE	PIN # WIRE
1 BROWN 2 - 3 BLUE 4 BLACK 5 -	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 -	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY	1 WHITE 2 BROWN 3 GREEN 4 YELLOW 5 GREY 6 PINK 7 BLUE 8 RED
REQUIRED TO IEC 60947-5-2		REQUIRED TO DIN 47100	

5	CABLE	SEE TABLE (PAGE 2)	---
4	OVERMOULDING	TPU	BLACK
3	MALE COUPLING NUT	BRASS	NI PLATED
2	PIN CONTACT	BRASS	GOLD PLATED
1	INSERT	PA	BLACK
ITEM	PART	MATERIAL	FINISH

ENTER DESCRIPTION EC NO: IPG2014-0812 DRAWN:PMERUNKA 2012/04/24 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		▼=0 ▽=0				DRAWN BY DATE		TITLE			
				4 PLACES ± --- ± ---		PMERUNKA 2012/04/24		CSE M12 XP AC MA RA XM SE UNSH			
				3 PLACES ± --- ± ---		CHECKED BY DATE					
				2 PLACES ± 0.05 ± ---		RSILLER 2013/01/18					
				1 PLACE ± 0.10 ± ---		APPROVED BY DATE		molex			
				0 PLACE ± --- ± ---		APOHL 2013/11/18					
				ANGULAR ± .5 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
				DRAFT WHERE APPLICABLE		SEE TABLE		SD-120065-051		1 OF 3	
				MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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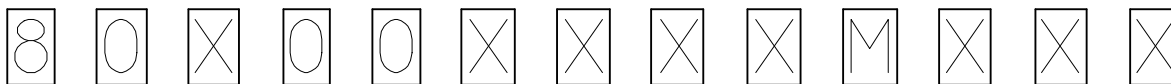
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NUMERICAL CODE (Available parts see table page 3 ff others on request.)



80 = M12x1
single ended

poles:

3 = 3 poles
4 = 4 poles
5 = 5 poles

header:

000 = plug female straight
001 = plug female 90° right
006 = plug male straight
007 = plug male 90° right

Cable:

E02 = 0,25mm², PVC black
E03 = 0,34mm², PVC black
H08 = 0,25mm², PUR black LS0H
H09 = 0,34mm², PUR black LS0H
I03 = 0,34mm², PVC grey
K05 = 0,34mm², TPE yellow
P02 = 0,25mm², PUR/PVC black
P03 = 0,34mm², PUR/PVC black
P82 = 0,34mm², PUR black irradiated
B30 = 0,34mm², black

M = meter

length:
Example
020 = 2 m

Special Types:

G = Brad in black
H = Std with ID tag
1 = Stainless Steel
7 = Teflon coat

y = yellow overmoulding
empty for black

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	static	flexing	drag chain tested	other
E02	0.25mm ²	PVC black	STYLE 2464	I/II A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
E03	0.34mm ²	PVC black	STYLE 2464	I/II A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
H08	0.25mm ²	PUR black LS0H	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	2000000 cycles	---
H09	0.34mm ²	PUR black LS0H	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	drag chain 60°C	---
I03	0.34mm ²	PVC grey	---	---	-30°C to +70°C	-5°C to +70°C	---	---
K05	0.34mm ²	TPE yellow	ITC E195601 or PLTC	AWM I/II A/B FT4 LL54185	---	---	---	CSA-US: ITC LL54185-02
P02	0.25mm ²	PUR/PVC black	not applicable	not applicable	-30°C to +80°C 7xD	-5°C to +80°C 15xD	---	---
P03	0.34mm ²	PUR/PVC black	not applicable	not applicable	-30°C to +80°C 7xD	-5°C to +80°C 15xD	---	---
P82	0.34mm ²	irrad. PUR orange	---	---	-50°C to +105°C 5xD	-40°C to +105°C 7.5xD	---	---
B30	0.34mm ²	PUR black	STYLE 21215	yes	-40°C to +90°C 5xD	-25°C to +80°C 7.5xD	---	---

ENTER DESCRIPTION	EC NO:	DATE	DRWN:	CHKD:	APPR:	REV
IPG2014-0812	2012/04/24	2013/11/04	PMERUNKA	CHYD-AP0HL	2013/11/18	1

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.10	± ---
0 PLACE	± ---	± ---
ANGULAR ± .5 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	MM ONLY
DRAWN BY	DATE
PMERUNKA	2012/04/24
CHECKED BY	DATE
RSILLER	2013/01/18
APPROVED BY	DATE
AP0HL	2013/11/18
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE	1:1
DESIGN UNITS	METRIC
THIRD ANGLE PROJECTION	
TITLE	
CSE M12 XP AC MA RA XM SE UNSH	
molex	
DOCUMENT NO.	SD-120065-051
SHEET NO.	2 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

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