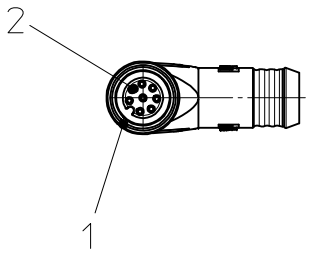
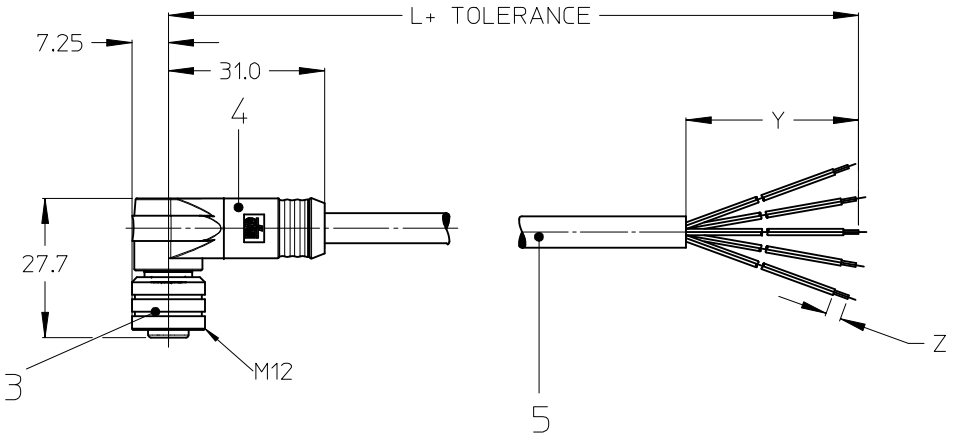
RIGHTANGLE PLUG M12 FEMALE





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 POL	4 POL	5 POL	8 POL	REMARKS
Y	30 +/-2	50 +/-2	50 +/-2	80 +/-3	OPEN END FOR TESTING
Z	3-6	3-6	3-6	3-6	NOT DEFINED

3 WIRE		4 WIRE		5 WIRE		8 WIRE	
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	5	GREY
						6	PINK
						7	BLUE
						8	RED
REQUIRED TO IEC 60947-5-2						REQUIRED TO DIN 47100	

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

ENTER DESCRIPTION
EC NO: IPG2014-0812 2013/08/09
DRWN:PMERUNKA 2013/11/04
CH'KD:APOHL 2013/11/18
APPR:APOHL
DESCRIPTION
REV
2

QUALITY SYMBOLS
▼=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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	PMERUNKA	2012/04/24
CHECKED BY	RSILLER	2013/01/18
APPROVED BY	CBURGER	2013/07/16

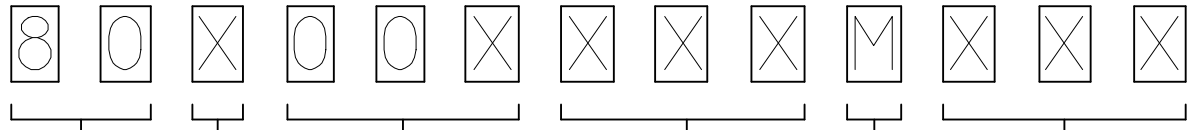
TITLE: CSE M12 XP AC FE RA XM SE UNSH

molex

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-120065-052
SHEET NO.: 1 OF 4
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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

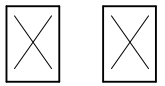
header:
000 = plug female straight
001 = plug female 90° right
006 = plug male straight
007 = plug male 90° right

Cable:
E02 = 0,25mm², PVC black
E03 = 0,34mm², PVC black
H08 = 0,25mm², PUR black LSOH
H09 = 0,34mm², PUR black LSOH
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, TPE black

M = meter

length:
Example
020 = 2 m

Special Types:



5 = Delrin
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	0.25mm²	PVC black	STYLE 2464	I/II A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
E03	0.34mm²	PVC black	STYLE 2464	I/II A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
H08	0.25mm²	PUR black LSOH	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	2000000 cycles	---
H09	0.34mm³	PUR black LSOH	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	drag chain 60°C	---
I03	0.34mm²	PVC grey	---	---	-30°C to +70°C	-5°C to +70°C	---	---
K05	0.34mm²	TPE yellow	ITC E195601 or PLTC	AWM I/II A/B FT4 LL54185	---	---	---	CSA-US: ITC LL54185-02
P02	0.25mm²	PUR/PVC black	not applicable	not applicable	-30°C to +80°C 7xD	-5°C to +80°C 15xD	---	---
P03	0.34mm²	PUR/PVC black	not applicable	not applicable	-30°C to +80°C 7xD	-5°C to +80°C 15xD	---	---
P82	0.34mm²	irrad. PUR orange	---	---	-50°C to +105°C5xD	-40°C to +105°C7.5xD	---	---
B30	0.34mm²	PUR black	STYLE 21215	yes	-40°C to +90°C 5xD	-25°C to +80°C 7.5xD	---	---

ENTER DESCRIPTION
EC NO: IPG2014-0812 2013/08/09
DRWN:PMERUNKA 2013/11/04
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APPR:APOHL
DESCRIPTION
REV
2

QUALITY SYMBOLS
▼=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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: PMERUNKA DATE: 2012/04/24
CHECKED BY: RSILLER DATE: 2013/01/18
APPROVED BY: CBURGER DATE: 2013/07/16
MATERIAL NO.: SEE TABLE

TITLE: CSE M12 XP AC FE RA XM SE UNSH

molex

DOCUMENT NO.: SD-120065-052
SHEET NO.: 2 OF 4

SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

P/N	Engineering-No
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1200658046	803001E03M006
1200658047	803001E03M0061
1200062402	803001E03M008
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1200061542	803001E03M011
1200060007	803001E03M020
1200061541	803001E03M022
1200060178	803001E03M030
1200061540	803001E03M033
1200658564	803001E03M040
1200658048	803001E03M0401
1200060008	803001E03M050
1200658234	803001E03M0501
1200658268	803001E03M0505
1200658886	803001E03M050H
1200061538	803001E03M051
1200061553	803001E03M058
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P/N	Engineering-No
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1200010769	803001P03M020X
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1200060216	803001P03M150
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P/N	Engineering-No
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P/N	Engineering-No
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1200651785	804001P03M050G
1200651786	804001P03M050GQ
1200658992	804001P03M050H
1200010077	804001P03M050W
1200658206	804001P03M060
1200010078	804001P03M070W
1200651787	804001P03M100
1200064391	804001P03M1001
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1200064350	804001P03M120
1200063793	804001P03M140
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1200062155	804001P82M030
1200062520	804001P82M050
1200060043	804001P82M0507
1200062615	804001P82M100

ENTER DESCRIPTION
EC NO: IPG2014-0812 2013/08/09
DRWN:PMERUNKA 2013/11/04
CH'KD:APOHL 2013/11/18
APPR:APOHL
DESCRIPTION
2
REV

QUALITY SYMBOLS
▼=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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: PMERUNKA DATE: 2012/04/24
CHECKED BY: RSILLER DATE: 2013/01/18
APPROVED BY: CBURGER DATE: 2013/07/16

TITLE: CSE M12 XP AC FE RA XM SE UNSH

molex

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-120065-052
SHEET NO.: 3 OF 4
SIZE: A3

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P/N	Engineering-No
1200658006	804001P82M1507
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1200062334	805001I03M100
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1200063564	805001I26M100
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P/N	Engineering-No
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P/N	Engineering-No
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1200658328	808001P19M100
1200658544	808001P19M250
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1200659120	803001I03M030Y
1200659121	803001I03M100Y
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P/N	Engineering-No
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1200659091	804001S20M100Y
1200659093	804001A09M050Y
1200659094	804001A09M100Y
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1200652267	805001B30M010
1200652268	805001B30M020
1200652269	805001B30M050
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ENTER DESCRIPTION
EC NO: IPG2014-0812 2013/08/09
DRWN:PMERUNKA 2013/11/04
CH'KD:APOHL 2013/11/18
APPR:APOHL
2 DESCRIPTION REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
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0 PLACE	± ---	± ---

ANGULAR ± .5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: PMERUNKA DATE: 2012/04/24
CHECKED BY: RSILLER DATE: 2013/01/18
APPROVED BY: CBURGER DATE: 2013/07/16

TITLE: CSE M12 XP AC FE RA XM SE UNSH

molex

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-120065-052
SHEET NO.: 4 OF 4
SIZE: A3

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