

Excellent Integrated System Limited

Stocking Distributor

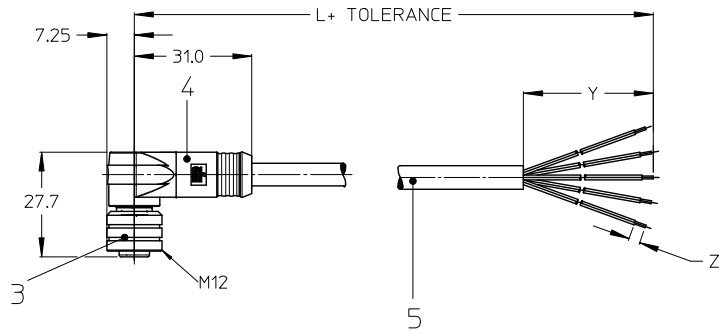
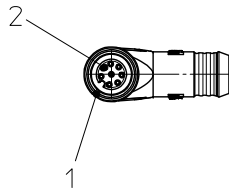
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[1200651639](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

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

ENTER DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: IPG2014-0972		DRAWN BY: PMERUNKA		mm		MM ONLY		1:1	METRIC	CSE M12 XP AC FE RA XM SE UNSH	
JDRWESCHAUER 2013/11/26		CHECKED BY: RSILLER		INCH		DATE					
2014/06/10		DATE		4 PLACES ± ---		2012/04/24					
APPROVED BY: CBURGER		DATE		3 PLACES ± ---		2013/01/18					
REV		DATE		2 PLACES ± 0.05		2013/07/16					
3		DATE		1 PLACE ± 0.10							
				0 PLACE ± ---							
				ANGULAR ± .5 °							
				DRAFT WHERE APPLICABLE		MATERIAL NO.					
				MUST REMAIN WITHIN DIMENSIONS		SEE TABLE					
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

10 9 8 7 6 5 4 3 2 1

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
I02 = 0,34mm², PCV grey
I20 = 0,34mm², PCV grey
I26 = 0,34mm², PCV grey
P12 = 0,50mm², PVC black

M = meter
C = centimeter

length:
Example
020 = 2 m

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	static	flexing	drag chain tested	other
E02	0,25mm²	PVC black	STYLE 2464	1/11 A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
E03	0,34mm²	PVC black	STYLE 2464	1/11 A/B 80°/300V	-30°C to +80°C 5xD	-5°C to +80°C 9xD	---	---
H08	0,25mm²	PUR black LS0H	AWM STYLE 21198/10493	APPROVED	-50°C to +80°C 5xD	-25°C to +80°C 10xD	2000000 cycles	---
H09	0,34mm²	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	0,34mm²	PVC grey	---	---	-30°C to +70°C	-5°C to +70°C	---	---
K05	0,34mm²	TPE yellow	ITC E195601 or PLTC	AWM 1/11 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°C 5xD	-40°C to +105°C 7,5xD	---	---
I02	0,34mm²	PVC grey	---	---	-25°C to +70°C 5xD	-5°C to +70°C 10xD	---	---
I20	0,34mm²	PVC grey	---	---	-30°C to +70°C	-5°C to +70°C	---	---
I26	0,50mm²	PVC grey	not applicable	not applicable	-30°C to +70°C	-5°C to +70°C	---	---
P12	0,34mm²	PVC black	---	---	-30°C to +90°C	-5°C to +90°C	---	---

ENTER DESCRIPTION
EC NO.: IFG2014-0972
DRAWN BY: CHYDPMERUNKA
CHECKED BY: RSILLER
APPROVED BY: CBURGER
DATE: 2013/07/16

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

SCALE 1:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
TITLE
CSE M12 XP AC FE RA XM
SE UNSH
molex
DOCUMENT NO. SD-120065-052
SHEET NO. 2 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

9 8 7 6 5 4 3 2 1



	10	9	8	7	6	5	4	3	2	1									
F	PART NUMBER	NUMERICAL CODE	CABLE LENGTH *L* IN M	PART NUMBER	NUMERICAL CODE	CABLE LENGTH *L* IN M	PART NUMBER	NUMERICAL CODE	CABLE LENGTH *L* IN M										
	1200062292	803001E03M003	0.3M	1200060513	803001P03M030G	3M	1200651622	804001K03M010	1M										
	1200658046	803001E03M006	0.6M	1200658611	803001P03M040	4M	1200651623	804001K03M020	2M										
	1200658047	803001E03M0061	0.61M	1200060012	803001P03M050	5M	1200650907	804001K03M0208	2.08M										
	1200062402	803001E03M008	0.8M	1200658976	803001P03M0505	5.05M	1200651625	804001K03M030	3M										
	1200060175	803001E03M010	1M	1200651773	803001P03M050G	5M	1200651626	804001K03M040	4M										
	1200061542	803001E03M011	1.1M	1200060013	803001P03M100	10M	1200651863	804001K03M0402	4.02M										
	1200060007	803001E03M020	2M	1200060216	803001P03M150	10.5M	1200650908	804001K03M0408	4.08M										
	1200061541	803001E03M022	2.2M	1200658311	803001P03M200	20M	1200651628	804001K03M050	5M										
	1200060178	803001E03M030	3M	1200658312	803001P03M300	30M	1200651630	804001K03M0502	5.02M										
	1200061540	803001E03M033	3.3M	1200063682	803001P82M020	2M	1200650909	804001K03M0508	5.08M										
	1200658564	803001E03M040	4M	1200658668	804001H09M010	1M	1200651631	804001K03M060	6M										
	1200658048	803001E03M0401	4.01M	1200658669	804001H09M015	1.5M	1200651632	804001K03M0602	6.02M										
	1200060008	803001E03M050	5M	1200658513	804001H09M020	2M	1200651633	804001K03M080	8M										
	1200658234	803001E03M0501	5.01M	1200658670	804001H09M030	3M	1200651634	804001K03M100	10M										
E	1200658268	803001E03M0505	5.05M	1200658671	804001H09M040	4M	1200651635	804001K03M150	10.5M										
	1200658866	803001E03M050H	5M	1200658193	804001H09M050	5M	1200652059	804001K03M200	20M										
	1200061538	803001E03M051	5.1M	1200064433	804001H09M050G	5M	1200651638	804001K05M010	1M										
	1200061553	803001E03M058	5.8M	1200658010	804001H09M050H	5M	1200651639	804001K05M020	2M										
	1200061552	803001E03M066	6.6M	1200658194	804001H09M100	10M	1200651640	804001K05M030	3M										
	1200060009	803001E03M100	10M	1200064436	804001H09M100G	10M	1200651641	804001K05M040	4M										
	1200658269	803001E03M1005	10.05M	1200658011	804001H09M100H	10M	1200651642	804001K05M050	5M										
	1200658885	803001E03M100H	10M	1200658195	804001H09M150	10.5M	1200651643	804001K05M060	6M										
	1200060184	803001E03M150	10.5M	1200658185	804001H09M150G	10.5M	1200651644	804001K05M100	10M										
	1200060187	803001E03M200	20M	1200658196	804001H09M200	20M	1200652139	804001K05M150	10.5M										
	1200658713	803001H09M010	1M	1200061935	804001I03M010	1M	1200651995	804001K05M250	20.5M										
	1200658714	803001H09M015	1.5M	1200658707	804001I03M010G	1M	1200063405	804001P03M003	0.3M										
	1200658715	803001H09M020	2M	1200060503	804001I03M020	2M	1200010071	804001P03M003W	0.3M										
	1200658716	803001H09M030	3M	1200658708	804001I03M020G	2M	1200010072	804001P03M006W	0.6M										
	1200658717	803001H09M040	4M	1200060505	804001I03M030	3M	1200061986	804001P03M010	1M										
C	1200658718	803001H09M050	5M	1200658709	804001I03M030G	3M	1200658624	804001P03M010G	1M										
	1200658719	803001H09M100	10M	1200064244	804001I03M040	4M	1200010073	804001P03M010W	1M										
	1200060202	803001I03M020	2M	1200658710	804001I03M040G	4M	1200010074	804001P03M015W	1.5M										
	1200062851	803001I03M025	2.5M	1200060042	804001I03M050	5M	1200060024	804001P03M020	2M										
	1200060204	803001I03M030	3M	1200062575	804001I03M0501	5.01M	1200651783	804001P03M020G	2M										
	1200658052	803001I03M036	3.6M	1200063532	804001I03M0505	5.05M	1200010075	804001P03M020W	2M										
	1200658594	803001I03M040	4M	1200658711	804001I03M050G	5M	1200060510	804001P03M030	3M										
	1200060010	803001I03M050	5M	1200060507	804001I03M100	10M	1200658625	804001P03M030G	3M										
	1200064210	803001I03M051	5.1M	1200658712	804001I03M100G	10M	1200010076	804001P03M030W	3M										
	1200060205	803001I03M100	10M	1200060508	804001I03M150	10.5M	1200652147	804001P03M040	4M										
	1200658287	803001I20M100	10M	1200062112	804001I20M003	0.3M	1200658631	804001P03M040G	4M										
	1200651489	803001K05M020	2M	1200658276	804001I20M100	10M	1200060025	804001P03M050	5M										
	1200651490	803001K05M040	4M	1200062161	804001P82M1007	10.07M	1200651785	804001P03M050G	5M										
	1200651491	803001K05M050	5M	1200062148	804001I20M160	10.6M	1200658992	804001P03M050H	5M										
	B	1200651492	803001K05M060	6M	ENTER DESCRIPTION EC No. IPG2014-0972 DRAWN:SCHEHAUSER 2013/06/18 CHKD:RUNKKA 2014/06/18 APPRO:RILLER 2014/06/18	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 °	DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	CSE M12 XP AC FE RA XM SE UNSH							
1200651493		803001K05M100	10M																
1200651494		803001K05M120	10.2M																
1200658403		803001P03M003	0.3M																
1200062837		803001P03M006	0.6M																
1200061318		803001P03M010	1M																
1200060011		803001P03M020	2M																
1200010769		803001P03M020X	2M																
1200062027		803001P03M022	2.2M																
1200063340		803001P03M025	2.5M																
1200060212		803001P03M030	3M																
A													DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	REV	SIZE A3	SEE TABLE	DOCUMENT NO. SD-120065-052	SHEET NO. 3 OF 4	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



tb_frame_A3_P_AM_T
Rev E1 2012/01/25