



CHART 1

Molex PN	Engineering No.	L [mm]
1201088303	E11A06012M005	500
1201088304	E11A06012M010	1000
1201088305	E11A06012M020	2000
1201088306	E11A06012M030	3000
1201088384	E11A06012M035	3500
1201088307	E11A06012M040	4000
1201088308	E11A06012M050	5000
1201088309	E11A06012M060	6000
1201088310	E11A06012M080	8000
1201088311	E11A06012M100	10000
1201088312	E11A06012M120	12000
1201088313	E11A06012M150	15000
1201088314	E11A06012M180	18000
1201088315	E11A06012M200	20000
1201088316	E11A06012M250	25000
1201088317	E11A06012M300	30000
1201088318	E11A06012M350	35000

Molex PN	Engineering No.	L [mm]
1201088319	E11A06012M400	40000
1201088320	E11A06012M450	45000
1201088321	E11A06012M500	50000
1201088322	E11A06012M550	55000
1201088323	E11A06012M600	60000
1201088324	E11A06012M650	65000
1201088325	E11A06012M700	70000
1201088326	E11A06012M750	75000
1201088327	E11A06012M800	80000
1201088328	E11A06012M850	85000
1201088402	E11A06012M002H	200
1201088403	E11A06012M005H	500
1201088404	E11A06012M010H	1000
1201088405	E11A06012M020H	2000
1201088406	E11A06012M030H	3000

Molex PN	Engineering No.	L [mm]
1201088407	E11A06012M050H	5000
1201088669	E11A06012M060H	6000
1201088408	E11A06012M100H	10000
1201088589	E11A06012M130H	13000
1201088409	E11A06012M150H	15000
1201088590	E11A06012M180H	18000
1201088410	E11A06012M200H	20000
1201088591	E11A06012M230H	23000
1201088411	E11A06012M250H	25000
1201088412	E11A06012M300H	30000
1201088413	E11A06012M400H	40000
1201088414	E11A06012M500H	50000
1201088415	E11A06012M600H	60000
1201088416	E11A06012M700H	70000
1201088417	E11A06012M900H	90000
1201088418	E11A06012M1K0H	100000

Table of length tolerances

Over (m)	Up to and including (m)	Tolerance (mm)(+)
0	1	+40/0
1	5	+60/0
5	10	+80/0
10	20	+140/0
20	30	+160/0
30	>	+ 1% of length

CONNECTOR SPECIFICATION:

VOLTAGE RATING	max 30V
AMPERAGE RATING	1.5 A
PROTECTION	IP67
OPERATING TEMPERATURE	SEE SHEET 2

ITEM	DESCRIPTION	MATERIAL	FINISH
5	CABLE	TPU	GREEN
4	OVERMOULDING	TPU	BLACK
3	COUPLING NUT MA SW13	BRASS	NICKEL PLATED
2	PIN CONTACT	COPPER ALLOY	GOLD OR NICKEL PLATED
1	INSERT	PUR	BLACK

ENTER DESCRIPTION  
EC NO: IPG2017-1160  
DRWN:BBRAUCH 2017/06/27  
CHKD:  
APPR:BBRAUCH 2017/06/27

QUANTITY SYMBOLS

▽=0  
◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.05	± ---
1 PLACE	± 0.3	± ---
0 PLACE	± 0.5	± ---

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

DRAWN BY: BBRAUCH  
DATE: 2014/10/16

CHECKED BY: FSCHAFHAUSER  
DATE: 2014/10/16

APPROVED BY: CBURGER  
DATE: 2014/10/16

MATERIAL NO.  
SEE CHART 1

SCALE 1:1

DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

TITLE  
CSE M12 ETH 4P DC MA  
STR WSOR XM DE

**molex**

DOCUMENT NO. SD-120108-072

SHEET NO. 1 OF 2

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

E 1 1 A 0 6 0 1 2 X X X X X

Network Protocol E=Ethernet	First and Second Connector 1=M12 Threaded 4 Pole D-code	Wiring Scheme A=4 Pole	HEAD TYPE 060 Plugs male straight and plugs male straight	Cable type 2x2x22AWG TPU, GREEN, SHIELD	LENGTH UNIT C-cm M-m K-km F-feet T=10xM	LENGTH Example: 010 - 1M 020 - 2M 050 - 5M 100 - 10M 150 - 15M 200 - 20M 300 - 30M	OPTIONS D- Decoupled (for Shielded version only)
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CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	static	flexing	drag chain tested	other
CAB-12 4P	0.34mm <sup>2</sup>	TPU GREEN	STYLE 21215	yes	-40°C to +80°C >5x0.D	-20°C to +60°C >15x0.D	2 mio cycles	WELD SLAG RESISTANCE

FOR CABLE SPECIFICATION SEE 1202098313 / SD-120209-007

ENTER DESCRIPTION EC NO: IPG2017-1160 DRWN:BBRAUCH 2017/06/27 CHKD: APPR:BBRAUCH 2017/06/27 REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▼=0 ◻=0	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.3 ± --- 0 PLACE ± 0.5 ± --- ANGULAR ± 1 °	MM ONLY	1:1	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY DATE	TITLE		
			BBRAUCH 2014/10/16	CSE M12 ETH 4P DC MA STR WSOR XM DE		
			CHECKED BY DATE	DOCUMENT NO.		
			FSCHAFHAUSER 2014/10/16	SD-120108-072		
			APPROVED BY DATE	SHEET NO.		
			CBURGER 2014/10/16	2 OF 2		
			MATERIAL NO.	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			SEE CHART 1			