



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

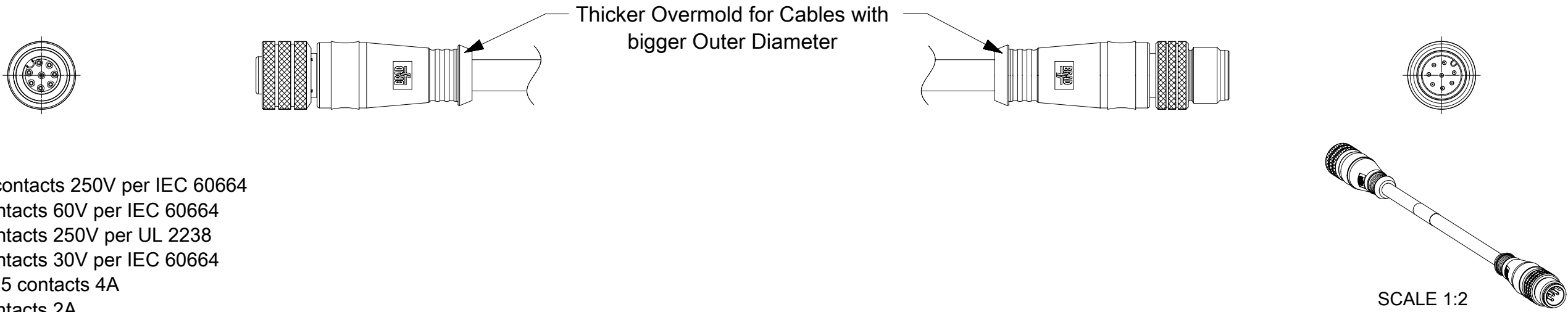
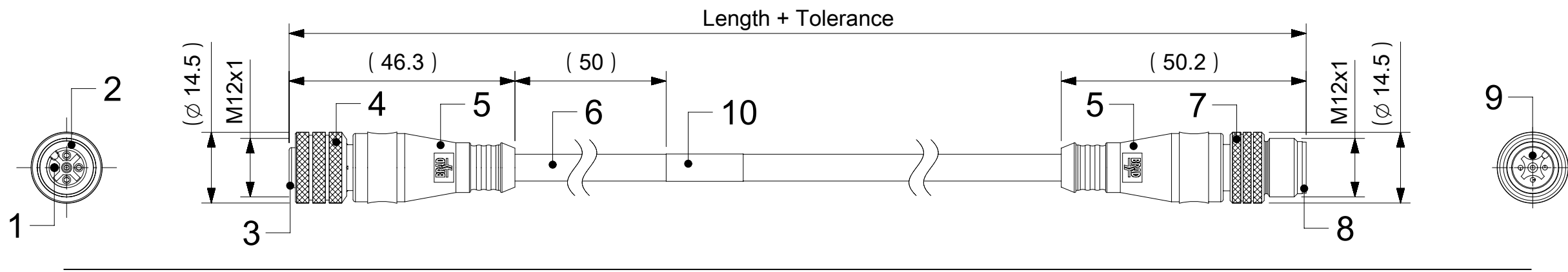
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT

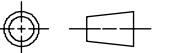


NOTES:
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C
CONTACTS POSITION FRONT VIEW:

	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								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

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

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
 = 0	EC NO: 110836 DRWN: JMARSZALEK CHK'D: RSILLER REV APPR: 2016/09/19 2016/12/08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE									
 = 0				MM		1:1									
 = 0		ANGULAR TOL ± 1.0 °		DRWN BY		DATE		CSE M12 XP AC FE STR MA STR XM DE							
 = 0		4 PLACES ±		JMARSZALEK		2016/09/19									
 = 0		3 PLACES ±		CHK'D BY		DATE									
 = 0		2 PLACES ± 0.05		APPR BY		DATE									
 = 0		1 PLACE ± 0.3		RSILLER		2016/12/08		PRODUCT CUSTOMER DRAWING							
 = 0		0 PLACES ± 0.5		DRAWING SIZE		THIRD ANGLE PROJECTION						SERIES		MATERIAL NUMBER	
 = 0		A	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3				120066		SEE SHEET 3-4		GENERAL MARKET	
 = 0										DOCUMENT NUMBER		DOC TYPE		DOC PART	
 = 0							1200668165		PSD		000		1 OF 4		

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
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 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	-	-
I02	3 / 4 / 8	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-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
K03	4 / 5	18AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, >7.5xO.D.	-15°C to +90°C, >12.5xO.D.	-	-
P19	8	0.25mm²	PUR BLACK	-	-	-40°C to +90°C, >7.5xO.D.	-15°C to +90°C, >12.5xO.D.	2 000 000 cycles, >15xO.D.	YES
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.	-	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

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

QUALITY SYMBOLS

2016/09/19

2016/12/08

EC NO: 110836

DRWN: JMARSZALEK

CHK'D: RSILLER

APPR: RSILLER

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

4 PLACES

3 PLACES

2 PLACES

1 PLACE

0 PLACES

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

MM

DRWN BY

JMARSZALEK

CHK'D BY

RSILLER

DRAWING SIZE

A3

THIRD ANGLE PROJECTION

SCALE

1:1

DATE

2016/09/19

DATE

2016/12/08

PRODUCT CUSTOMER DRAWING

SERIES

120066

DOCUMENT NUMBER

1200668165

MATERIAL NUMBER

SEE SHEET 3-4

DOC TYPE

PSD

CUSTOMER

GENERAL MARKET

DOC PART

000

SHEET NUMBER

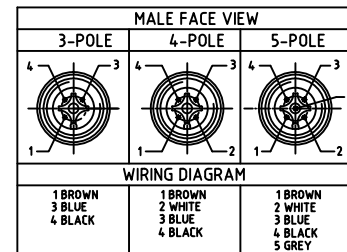
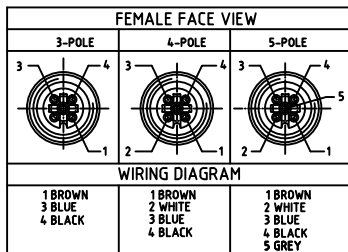
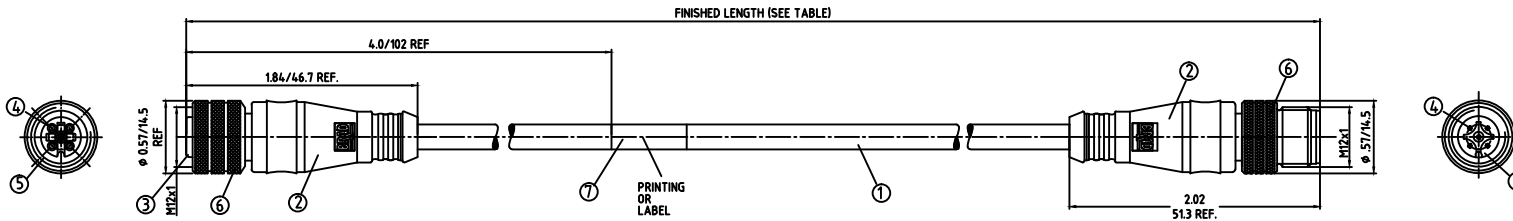
2 OF 4

molex®

CSE M12 XP AC FE STR MA STR XM DE

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RELEASE STATUS				P1				RELEASE DATE				08.12.2016				08:45:02				9				8				7				6				5				4				3				2				1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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9				8				7				6				5				4				3				2				1			
PART LIST																																			
E	No.	Part No.	Engineering No.	Cable Length					No.	Part No.	Engineering No.	Cable Length					No.	Part No.	Engineering No.	Cable Length					No.	Part No.	Engineering No.	Cable Length							
	141	1200668090	885030S26M020H	2m					176	1200668735	884030P82M0707Y	7m					211								246										
	142	1200668098	888030P19M010	1m					177	1200668736	885030I26M015Y	1.5m					212								247										
	143	1200668099	888030P19M050	5m					178	1200668773	885030P82M0107	1m					213								248										
	144	1200668165	885030I03M100	10m					179	1200668873	885030I26M050Y	5m					214								249										
	145	1200668172	883030S20M050	5m					180	1200669113	884030A09M0308	3m					215								250										
	146	1200668187	884030P82M050H	5m					181	1200669118	884030P82M0307Y	3m					216								251										
	147	1200668252	888030P19M030	3m					182	1200669149	883030I03M010Y	1m					217								252										
	148	1200668281	885030I26M025	2.5m					183	1200669218	885030I03M100Y	10m					218								253										
	149	1200668310	883030S20M005	0.5m					184	1200669227	884030K05M500	50m					219								254										
D	150	1200668349	884030P82M0101	1m					185	1200669228	884030K05M600	60m					220								255										
	151	1200668371	883030I03M040	4m																															



CONNECTOR SPECIFICATION:

VOLTAGE RATING	250 VAC/VDC
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-20°C TO 105°C

ITEM	COMPONENT	MATERIAL	FINISH
7	LABLE	MYLAR	BLACK/YELLOW
6	COUPLER	BRASS	TEFLON
5	O-RING	VITON	RED
4	SOCKET/PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	NYLON	BLACK
2	OVERMOLD	TPE	YELLOW
1	CABLE- 22/3-5 (COPPER STRANDING) 3/4/5 CONDUCT. 300V	TPE JACKET	YELLOW

ADD P/N 884030K05M005 EC NO.: WNA2011-0420 DRWN: TWOLDEGE CHKD: LHARTMAN APPR: JFMURPHY 2/15/11 2010/01/29	QUALITY SYMBOLS	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					IN/MM		1:1	METRIC		
			▽ = 0	4 PLACES ± -- ± --	DRAWN BY	DATE	MICRO-CHANGE CORDSET 3/4/5 P. FE STR/ MA STR 22/3-5 YELLOW TPE CABLE			
				3 PLACES ± -- ± --	LSTEMMLE	2010/01/25				
			▽ = 0	2 PLACES ± -- ± .01	CHECKED BY	DATE				
				1 PLACE ± 0.3 ± --	RE	2010/01/26	MOLEX INCORPORATED			
				ANGULAR ± -- °	APPROVED BY	DATE				
					NSTAUDIG	2010/01/29				
					MATERIAL NO.		DOCUMENT NO.			
					SEE TABLE		SD-120066-011			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SHEET NO. 1 OF 2						
3	REV		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
3	1200660676	883030K05M010	3.28' +2.19" -0 [1.0M +55.6 -0]
3	1200660680	883030K05M040	13.12' +6.50" -0 [4.0M +165.1 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
4	1200660683	884030K05M003	.3M +19.1 -0 [.98' +.75" -0]
4	1200660684	884030K05M005	.5M +44.5 -0 [1.64' +1.75" -0]
4	1200660686	884030K05M006	.6M +44.5 -0 [1.97' +1.75" -0]
4	1200660687	884030K05M010	1.0M +55.6 -0 [3.27' +2.19" -0]
4	1200660688	884030K05M015	1.5M +55.6 -0 [4.91' +2.19" -0]
4	1200660689	884030K05M020	2.0M +88.9 -0 [6.56' +3.50" -0]
4	1200660690	884030K05M030	3.0M +88.9 -0 [9.84' +3.50" -0]
4	1200660691	884030K05M040	4.0M +165.1 -0 [13.12' +6.50" -0]
4	1200660692	884030K05M050	5.0M +165.1 -0 [16.40' +6.50" -0]
4	1200660693	884030K05M060	6.0M +165.1 -0 [19.69' +6.50" -0]
4	1200660694	884030K05M080	8.0M +317.5 -0 [26.25' +12.50" -0]
4	1200660695	884030K05M100	10.0M +317.5 -0 [32.81' +12.50" -0]
4	1200660696	884030K05M120	12.0M +317.5 -0 [39.37' +12.50" -0]
4	1200660697	884030K05M150	15.0M +622.3 -0 [49.21' +24.50" -0]
4	1200660698	884030K05M180	18.0M +622.3 -0 [59.06' +24.50" -0]
4	1200660921	884030K05M200	20.0M +622.3 -0 [65.62' +24.50" -0]
4	1200660699	884030K05M230	23.0M +622.3 -0 [75.21' +24.50" -0]
4	1200660700	884030K05M300	30.0M +622.3 -0 [98.43' +24.50" -0]
4	1200660701	884030K05M610	61.0M +622.3 -0 [199.47' +24.50" -0]

ADD P/N 884030K05M005 EC NO: WNA2011-0420 DRWN: TWOLDEGE CHKD: LHARTMAN APPR: JFMURPHY 2/15/11 2010/01/29	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					IN/MM		1:1	METRIC		
		= 0 = 0			DRAWN BY DATE		MICRO-CHANGE CORDSET 3/4/5 P. FE STR/ MA STR 22/3-5 YELLOW TPE CABLE			
			4 PLACES ±-- ±--		LSTEMMLE 2010/01/25					
		3 PLACES ±-- ±--		CHECKED BY DATE		MOLEX INCORPORATED				
		2 PLACES ±-- ±.01		RE 2010/01/26						
		1 PLACE ±0.3 ±--		APPROVED BY DATE		SD-120066-011				
		ANGULAR ± -- °		NSTAUDIG 2010/01/29						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				SEE TABLE		SD-120066-011		2 OF 2		
3	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					