

F

E

D

C

B

A

F

E

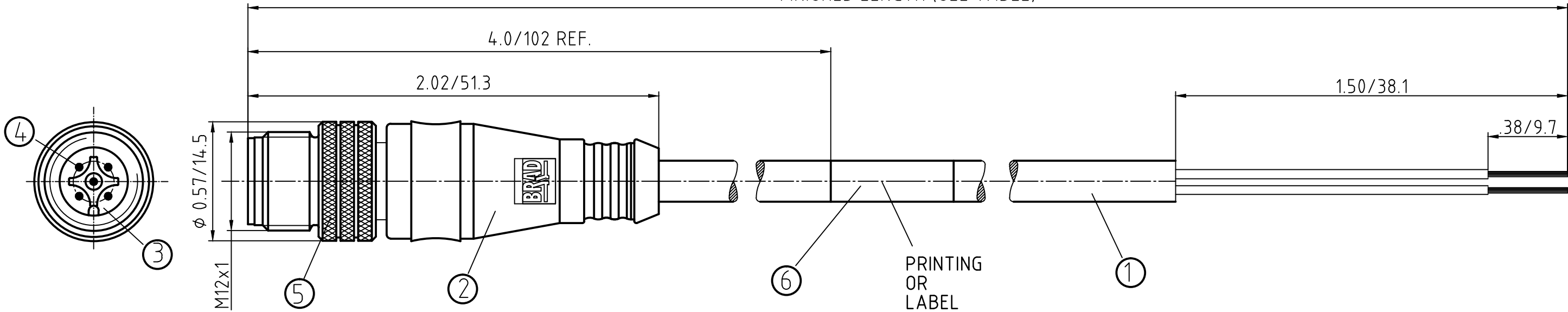
D

C

B

A

FINISHED LENGTH (SEE TABLE)



CONNECTOR SPECIFICATION:

VOLTAGE RATING	250 VAC/VDC
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-20°C TO 105°C
UL CERTIFICATIONS	UL RECOGNIZED, FILE NO. E152210
CSA CERTIFICATIONS	CSA CERTIFIED, FILE NO. LR6837

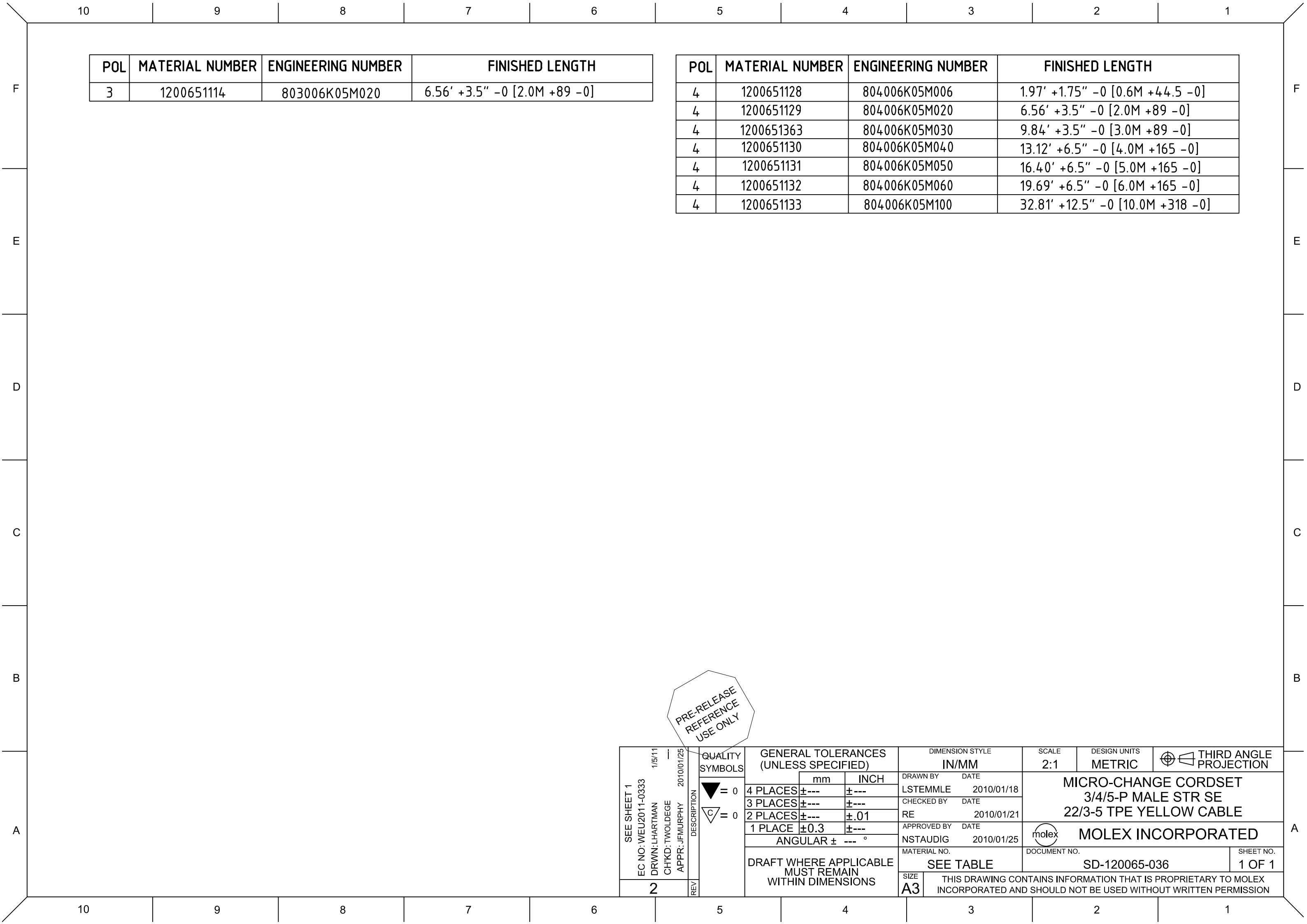
ITEM	COMPONENT	MATERIAL	FINISH
6	LABLE	MYLAR	BLACK/YELLOW
5	COUPLER	BRASS	NICKEL PLATED
4	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	NYLON	BLACK
2	OVERMOLD	TPE	YELLOW
1	CABLE- 22/3-5 (COPPER STRANDING) 3/4/5 CONDUCT. 300V	INSUL: PVC JACKET: TPE	YELLOW

MALE FACE VIEW

3-POLE	4-POLE	5-POLE
WIRING DIAGRAM		
1 BROWN 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY

PRE-RELEASE
REFERENCE
USE ONLY

ADD P/N 1200651363 EC NO: WEU2011-0333 DRWN: L'HARTMAN CH'KD: TWOLDEGE APPR: JFMURPHY 1/5/11 2010/01/25	DESCRIPTION	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 LSTEMMLE	DATE 2010/01/18	MICRO-CHANGE CORDSET 3/4/5-P MALE STR SE 22/3-5 TPE YELLOW 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.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE SHEET 2		SD-120065-036				
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
2		REV										



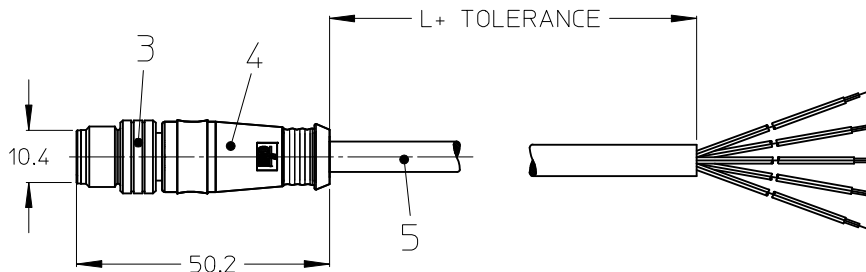
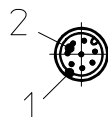
POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
3	1200651114	803006K05M020	6.56' +3.5" -0 [2.0M +89 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
4	1200651128	804006K05M006	1.97' +1.75" -0 [0.6M +44.5 -0]
4	1200651129	804006K05M020	6.56' +3.5" -0 [2.0M +89 -0]
4	1200651363	804006K05M030	9.84' +3.5" -0 [3.0M +89 -0]
4	1200651130	804006K05M040	13.12' +6.5" -0 [4.0M +165 -0]
4	1200651131	804006K05M050	16.40' +6.5" -0 [5.0M +165 -0]
4	1200651132	804006K05M060	19.69' +6.5" -0 [6.0M +165 -0]
4	1200651133	804006K05M100	32.81' +12.5" -0 [10.0M +318 -0]

PRE-RELEASE
REFERENCE
USE ONLY

SEE SHEET 1 EC NO: WEU2011-0333 DRWN: LHARTMAN CHKD: TWOLDEGE APPR: JFMURPHY 1/5/11 2010/01/25	DESCRIPTION	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 LSTEMMLE	DATE 2010/01/18	MICRO-CHANGE CORDSET 3/4/5-P MALE STR SE 22/3-5 TPE YELLOW CABLE							
			4 PLACES	±---	±---	CHECKED BY	DATE								
			3 PLACES	±---	±---	RE	2010/01/21								
			2 PLACES	±---	±.01	APPROVED BY	DATE	molex MOLEX INCORPORATED		DOCUMENT NO. SD-120065-036		SHEET NO. 1 OF 1			
			1 PLACE	±0.3	±---	NSTAUDIG	2010/01/25								
			ANGULAR ± --- °			MATERIAL NO.									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE									
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

STRAIGHT 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

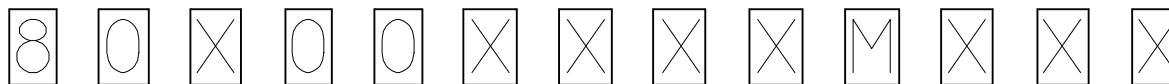
3 WIRE	4 WIRE	5 WIRE	8 WIRE
PIN # WIRE	PIN # WIRE	PIN # WIRE	PIN # WIRE
1 BROWN	1 BROWN	1 BROWN	1 WHITE
2 -	2 WHITE	2 WHITE	2 BROWN
3 BLUE	3 BLUE	3 BLUE	3 GREEN
4 BLACK	4 BLACK	4 BLACK	4 YELLOW
5 -	5 -	5 GREY	5 GREY
			6 PINK
			7 BLUE
			8 RED
REQUIRED TO IEC 60947-5-2			REQUIRED TO DIN 47100

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 DRWN:PMERUNKA 2012/04/20 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY PMERUNKA	DATE 2012/04/20	TITLE CSE M12 XP AC MA STR XM SE UNSH	molex	DOCUMENT NO. SD-120065-049	SHEET NO. 1 OF 3
			4 PLACES	± ---	± ---	CHECKED BY RSILLER	DATE 2013/01/18				
			3 PLACES	± ---	± ---	APPROVED BY APOHL	DATE 2013/11/18				
			2 PLACES	± 0.05	± ---						
			1 PLACE	± 0.10	± ---						
			0 PLACE	± ---	± ---						
			ANGULAR ± .5 °		MATERIAL NO.						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
			SIZE A3		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
B30 = 0,34mm², TPE black

M = meter

length:
Example
020 = 2 m

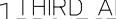
Special Types:



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	0.25mm²	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 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 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°C 5xD	-40°C to +105°C 7.5xD	---	---
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 DRWN:PMERUNKA 2012/04/20 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 							
				mm	INCH	DRAWN BY PMERUNKA	DATE 2012/04/20	TITLE CSE M12 XP AC MA STR XM SE UNSH								
			4 PLACES	± ---	± ---	CHECKED BY RSILLER	DATE 2013/01/18									
			3 PLACES	± ---	± ---	APPROVED BY APOHL		DATE 2013/11/18		molex						
			2 PLACES	± 0.05	± ---											
			1 PLACE	± 0.10	± ---											
			0 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.							SHEET NO.	
DRAFT WHERE APPLICABLE		SEE TABLE		SD-120065-049					2 OF 3							
MUST REMAIN WITHIN DIMENSIONS		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

PART LIST

1200064353	803006E03M003
1200658526	803006E03M005
1200658565	803006E03M010
1200060240	803006E03M020
1200062017	803006E03M030
1200658566	803006E03M040
1200060241	803006E03M050
1200060242	803006E03M100
1200061611	803006E03M150
1200658892	803006H09M003
1200658653	803006H09M010
1200658654	803006H09M015
1200658655	803006H09M020
1200658656	803006H09M030
1200658657	803006H09M040
1200658248	803006H09M050
1200658247	803006H09M100
1200060252	803006I03M020
1200060253	803006I03M030
1200658595	803006I03M040
1200060254	803006I03M050
1200651113	803006K05M006
1200652035	803006K05M015
1200651114	803006K05M020
1200651115	803006K05M025
1200651116	803006K05M040
1200651117	803006K05M050
1200651118	803006K05M060
1200651119	803006K05M100
1200060256	803006P03M002
1200659194	804006E09M250

1200658055	803006P03M003
1200064160	803006P03M005
1200061853	803006P03M010
1200060257	803006P03M020
1200060260	803006P03M030
1200658612	803006P03M040
1200060261	803006P03M050
1200658613	803006P03M100
1200064014	803006P82M006
1200064375	803006P82M010
1200061551	803006S20M050
1200062606	803006S20M100
1200063077	804006E02M005
1200659034	804006E02M050
1200659036	804006E02M070
1200659037	804006E02M100
1200658265	804006E03C550
1200064251	804006E03M003
1200064252	804006E03M005
1200060558	804006E03M006
1200060559	804006E03M010
1200060560	804006E03M020
1200062830	804006E03M0205
1200060561	804006E03M030
1200658571	804006E03M040
1200060562	804006E03M050
1200659186	804006E03M060

1200658542	804006E03M070
1200060563	804006E03M100
1200060046	804006E03M120
1200658876	804006E03M150
1200062426	804006E03M200
1200658890	804006H09M003
1200658727	804006H09M010
1200658728	804006H09M015
1200658729	804006H09M020
1200658730	804006H09M030
1200658731	804006H09M040
1200658732	804006H09M050
1200658733	804006H09M100
1200658895	804006H09M200
1200658325	804006I03M010
1200060565	804006I03M020
1200658601	804006I03M040
1200060567	804006I03M050
1200060568	804006I03M100
1200061023	804006I20M003

1200651356	804006K03M005
1200652024	804006K03M006
1200651357	804006K03M010
1200651359	804006K03M020
1200652027	804006K03M030
1200652025	804006K03M036
1200651360	804006K03M040
1200651361	804006K03M050
1200651362	804006K03M060
1200651128	804006K05M006
1200652082	804006K05M010
1200651363	804006K05M030
1200651130	804006K05M040
1200651131	804006K05M050
1200651132	804006K05M060
1200651133	804006K05M100
1200061855	804006P03M006
1200064347	804006P03M007
1200061633	804006P03M010
1200064261	804006P03M011
1200060570	804006P03M020
1200060571	804006P03M030
1200652141	804006P03M040
1200060047	804006P03M050

1200652271	803006B30M010
1200652272	803006B30M020
1200652273	803006B30M050
1200652274	803006B30M100
1200652275	804006B30M010
1200652276	804006B30M020
1200652277	804006B30M050
1200652278	804006B30M100
1200652279	805006B30M010
1200652280	805006B30M020
1200652281	805006B30M050
1200652282	805006B30M100

ENTER DESCRIPTION EC NO: IPG2014-0812 DRWN:PMERUNKA 2012/04/20 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18 REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
		4 PLACES 3 PLACES 2 PLACES 1 PLACE 0 PLACE	mm	INCH	DRAWN BY PMERUNKA	DATE 2012/04/20	TITLE CSE M12 XP AC MA STR XM SE UNSH						
			± ---	± ---	CHECKED BY RSILLER	DATE 2013/01/18							
			± 0.05	± ---	APPROVED BY APOHL	DATE 2013/11/18							
ANGULAR ± .5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-120065-049							
1		6		5		4		3		2		1	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													