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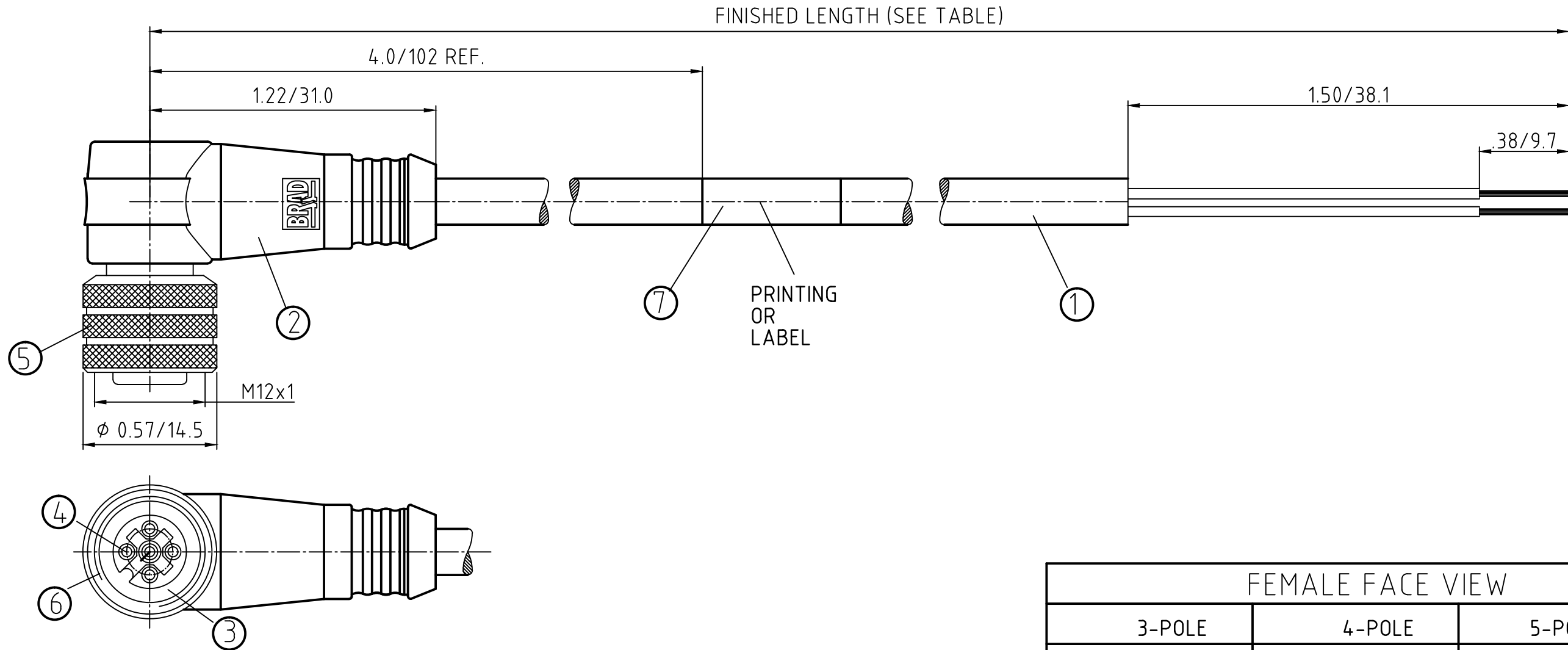
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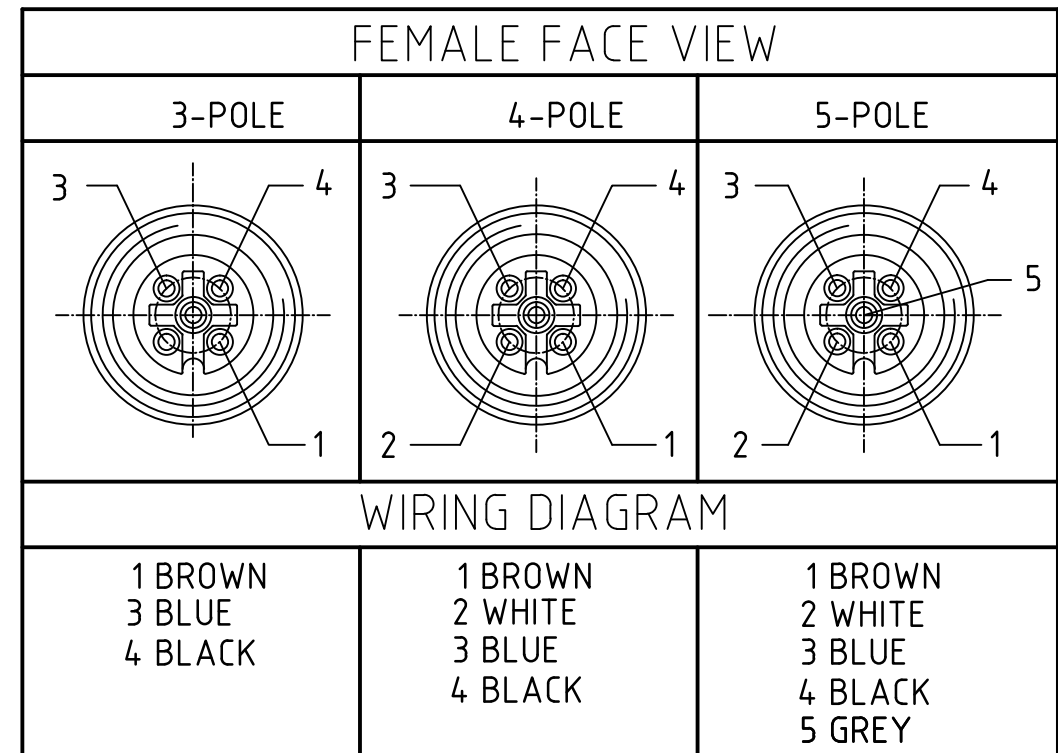
A



CONNECTOR SPECIFICATION:

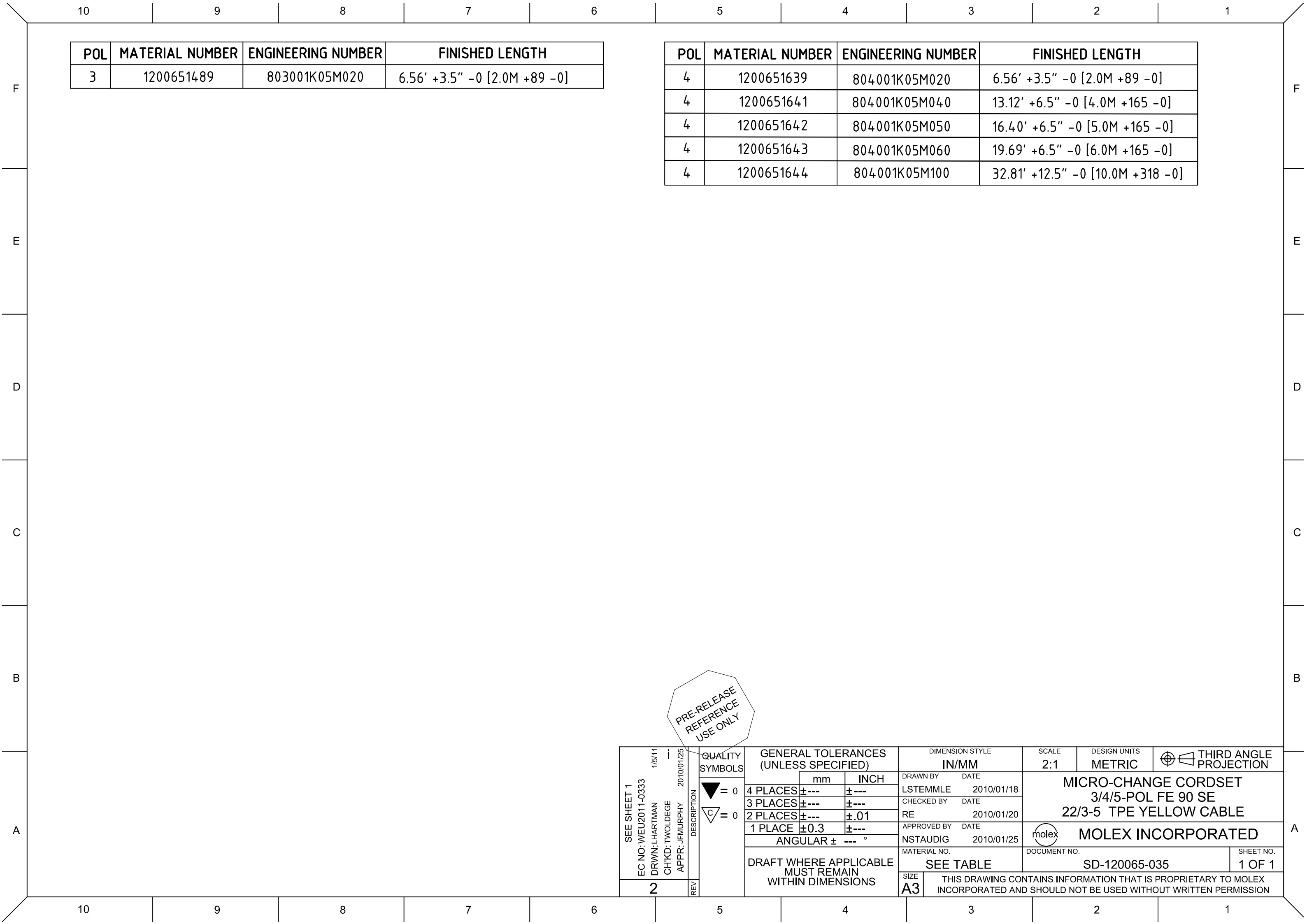
VOLTAGE RATING	250 VAC/VDC
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-20°C TO 105°C
UL CERTIFICATIONS	UL RECOGNIZED, FILE NO. E152210
CSA CERTIFICATIONS	CSA CERTIFIED, FILE NO. LR6837

ITEM	COMPONENT	MATERIAL	FINISH
7	LABLE	MYLAR	BLACK/YELLOW
6	O-RING	VITON	RED
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



PRE-RELEASE
REFERENCE
USE ONLY

CORRECT SMART P/NS EC NO: WEU2011-0333 DRWN: LHARTMAN CHKD: TWOLDEGE APPR: JFMURPHY 1/5/11 2010/01/25		DESCRIPTION REV	QUALITY SYMBOLS ▽ = 0 ∇ = 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-POL FE 90 SE 22/3-5 TPE YELLOW CABLE			
				4 PLACES	±---	±---	CHECKED BY	DATE 2010/01/20				
				3 PLACES	±---	±---	RE	DATE 2010/01/20	MOLEX INCORPORATED			
				2 PLACES	±---	±.01	APPROVED BY	DATE 2010/01/25				
				1 PLACE	±0.3	±---	NSTAUDIG					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± --- °			MATERIAL NO. SEE TABLE SHEET 2		DOCUMENT NO. SD-120065-035
2						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



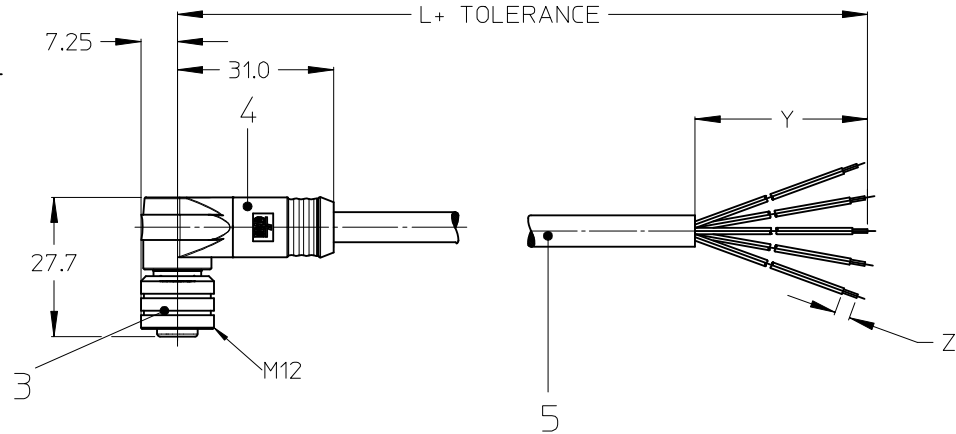
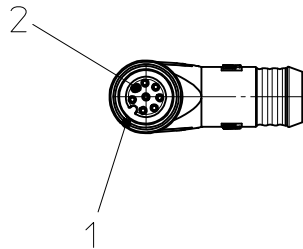
POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
3	1200651489	803001K05M020	6.56' +3.5" -0 [2.0M +89 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
4	1200651639	804001K05M020	6.56' +3.5" -0 [2.0M +89 -0]
4	1200651641	804001K05M040	13.12' +6.5" -0 [4.0M +165 -0]
4	1200651642	804001K05M050	16.40' +6.5" -0 [5.0M +165 -0]
4	1200651643	804001K05M060	19.69' +6.5" -0 [6.0M +165 -0]
4	1200651644	804001K05M100	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 REV	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-POL FE 90 SE 22/3-5 TPE YELLOW CABLE					
			4 PLACES	±---	±---	CHECKED BY	DATE						
			3 PLACES	±---	±---	RE	2010/01/20						
			2 PLACES	±---	±.01	APPROVED BY	DATE		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		SD-120065-035			1 OF 1		
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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 2 - 3 BLUE 4 BLACK 5 -	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 -	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY	1 WHITE 2 BROWN 3 GREEN 4 YELLOW 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 EC NO: IPG2014-0812 DRWN:PMERUNKA CHKD:APOHL APPR:APOHL REV 2	DESCRIPTION QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY PMERUNKA	DATE 2012/04/24	TITLE CSE M12 XP AC FE RA XM SE UNSH			
		4 PLACES	± ---	± ---	CHECKED BY RSILLER	DATE 2013/01/18	molex			
		3 PLACES	± ---	± ---	APPROVED BY CBURGER	DATE 2013/07/16				
		2 PLACES	± 0.05	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		1 PLACE	± 0.10	± ---	SEE TABLE		SD-120065-052		1 OF 4	
		0 PLACE	± 0.01	± ---	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
		ANGULAR ± .5 °								
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

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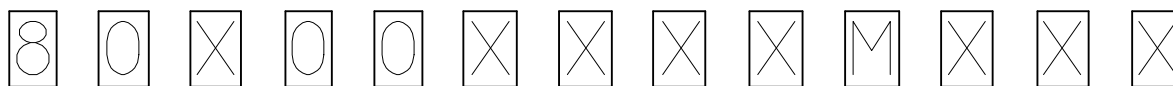
4

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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:



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 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	REV
EC NO: IPG2014-0812 DRWN:PMERUNKA 2013/08/09 CHKD:APOHL 2013/11/04 APPR:APOHL 2013/11/18	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	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	1:1	METRIC	
DRAWN BY	DATE	TITLE	
PMERUNKA	2012/04/24	CSE M12 XP AC FE RA XM SE UNSH	
CHECKED BY	DATE		
RSILLER	2013/01/18		
APPROVED BY	DATE		
CBURGER	2013/07/16		
MATERIAL NO.			
SEE TABLE			

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
1:1	METRIC	
DRAWN BY	DATE	TITLE
PMERUNKA	2012/04/24	CSE M12 XP AC FE RA XM SE UNSH
CHECKED BY	DATE	
RSILLER	2013/01/18	
APPROVED BY	DATE	
CBURGER	2013/07/16	
MATERIAL NO.		
SEE TABLE		
DOCUMENT NO.		
SD-120065-052		
SHEET NO.		
2 OF 4		

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F	<table><tr><th>P/N</th><th>Engineering-No</th></tr><tr><td>1200062292</td><td>803001E03M003</td></tr><tr><td>1200658046</td><td>803001E03M006</td></tr><tr><td>1200658047</td><td>803001E03M0061</td></tr><tr><td>1200062402</td><td>803001E03M008</td></tr><tr><td>1200060175</td><td>803001E03M010</td></tr><tr><td>1200061542</td><td>803001E03M011</td></tr><tr><td>1200060007</td><td>803001E03M020</td></tr><tr><td>1200061541</td><td>803001E03M022</td></tr><tr><td>1200060178</td><td>803001E03M030</td></tr><tr><td>1200061540</td><td>803001E03M033</td></tr><tr><td>1200658564</td><td>803001E03M040</td></tr><tr><td>1200658048</td><td>803001E03M0401</td></tr><tr><td>1200060008</td><td>803001E03M050</td></tr><tr><td>1200658234</td><td>803001E03M0501</td></tr><tr><td>1200658268</td><td>803001E03M0505</td></tr><tr><td>1200658886</td><td>803001E03M050H</td></tr><tr><td>1200061538</td><td>803001E03M051</td></tr><tr><td>1200061553</td><td>803001E03M058</td></tr><tr><td>1200061552</td><td>803001E03M066</td></tr><tr><td>1200060009</td><td>803001E03M100</td></tr><tr><td>1200658269</td><td>803001E03M1005</td></tr><tr><td>1200658885</td><td>803001E03M100H</td></tr><tr><td>1200060184</td><td>803001E03M150</td></tr><tr><td>1200060187</td><td>803001E03M200</td></tr><tr><td>1200658713</td><td>803001H09M010</td></tr><tr><td>1200658714</td><td>803001H09M015</td></tr><tr><td>1200658715</td><td>803001H09M020</td></tr><tr><td>1200658716</td><td>803001H09M030</td></tr><tr><td>1200658717</td><td>803001H09M040</td></tr><tr><td>1200658718</td><td>803001H09M050</td></tr><tr><td>1200698320</td><td>804S01P20M050Y</td></tr><tr><td>1200659117</td><td>805001I26M100Y</td></tr><tr><td>1200659083</td><td>805001E03M100Y</td></tr><tr><td>1200659084</td><td>805001I26M050Y</td></tr><tr><td>1200659101</td><td>808001H08M050Y</td></tr><tr><td>1200659105</td><td>808001H08M100Y</td></tr></table>	P/N	Engineering-No	1200062292	803001E03M003	1200658046	803001E03M006	1200658047	803001E03M0061	1200062402	803001E03M008	1200060175	803001E03M010	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	1200061552	803001E03M066	1200060009	803001E03M100	1200658269	803001E03M1005	1200658885	803001E03M100H	1200060184	803001E03M150	1200060187	803001E03M200	1200658713	803001H09M010	1200658714	803001H09M015	1200658715	803001H09M020	1200658716	803001H09M030	1200658717	803001H09M040	1200658718	803001H09M050	1200698320	804S01P20M050Y	1200659117	805001I26M100Y	1200659083	805001E03M100Y	1200659084	805001I26M050Y	1200659101	808001H08M050Y	1200659105	808001H08M100Y	<table><tr><th>P/N</th><th>Engineering-No</th></tr><tr><td>1200658719</td><td>803001H09M100</td></tr><tr><td>1200060202</td><td>803001I03M020</td></tr><tr><td>1200062851</td><td>803001I03M025</td></tr><tr><td>1200060204</td><td>803001I03M030</td></tr><tr><td>1200658052</td><td>803001I03M036</td></tr><tr><td>1200658594</td><td>803001I03M040</td></tr><tr><td>1200060010</td><td>803001I03M050</td></tr><tr><td>1200064210</td><td>803001I03M051</td></tr><tr><td>1200060205</td><td>803001I03M100</td></tr><tr><td>1200658287</td><td>803001I20M100</td></tr><tr><td>1200651489</td><td>803001K05M020</td></tr><tr><td>1200651490</td><td>803001K05M040</td></tr><tr><td>1200651491</td><td>803001K05M050</td></tr><tr><td>1200651492</td><td>803001K05M060</td></tr><tr><td>1200651493</td><td>803001K05M100</td></tr><tr><td>1200651494</td><td>803001K05M120</td></tr><tr><td>1200658403</td><td>803001P03M003</td></tr><tr><td>1200062837</td><td>803001P03M006</td></tr><tr><td>1200061318</td><td>803001P03M010</td></tr><tr><td>1200060011</td><td>803001P03M020</td></tr><tr><td>1200010769</td><td>803001P03M020X</td></tr><tr><td>1200062027</td><td>803001P03M022</td></tr><tr><td>1200063340</td><td>803001P03M025</td></tr><tr><td>1200060212</td><td>803001P03M030</td></tr><tr><td>1200065013</td><td>803001P03M030G</td></tr><tr><td>1200658611</td><td>803001P03M040</td></tr><tr><td>1200060012</td><td>803001P03M050</td></tr><tr><td>1200658976</td><td>803001P03M0505</td></tr><tr><td>1200651773</td><td>803001P03M050G</td></tr><tr><td>1200060013</td><td>803001P03M100</td></tr><tr><td>1200060216</td><td>803001P03M150</td></tr><tr><td>1200658311</td><td>803001P03M200</td></tr><tr><td>1200658312</td><td>803001P03M300</td></tr><tr><td>1200658547</td><td>803001P20M150</td></tr><tr><td>1200063682</td><td>803001P82M020</td></tr></table>	P/N	Engineering-No	1200658719	803001H09M100	1200060202	803001I03M020	1200062851	803001I03M025	1200060204	803001I03M030	1200658052	803001I03M036	1200658594	803001I03M040	1200060010	803001I03M050	1200064210	803001I03M051	1200060205	803001I03M100	1200658287	803001I20M100	1200651489	803001K05M020	1200651490	803001K05M040	1200651491	803001K05M050	1200651492	803001K05M060	1200651493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