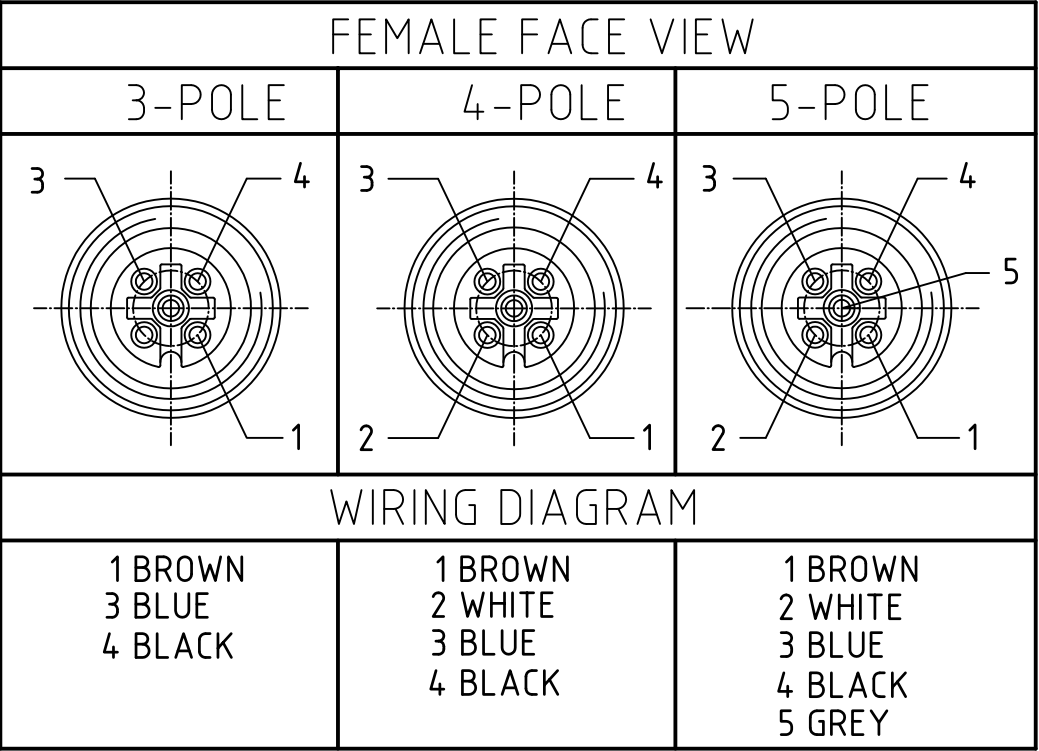


CONNECTOR SPECIFICATION:

VOLTAGE RATING	250 VAC/VDC
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-30°C TO 80°C
UL CERTIFICATIONS	UL STYLE 2464
CSA CERTIFICATIONS	I/II A/B 80°/300V

ITEM	COMPONENT	MATERIAL	FINISH
6	O-RING	VITON	RED
5	COUPLER	BRASS	NICKEL PLATED
4	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	NYLON	BLACK
2	OVERMOLD	POLYURETHANE (PUR)	YELLOW
1	CABLE- 22/3-5 (COPPER STRANDING) 3/4/5 CONDUCT. 300V	JACKET: PVC	JACKET: BLACK

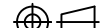


DESCRIPTION EC NO: WEU2010-0283 DRWN: LSTEMMLE CHKD: NS APPR: NSTAUDIG	2010/01/20 --- 2010/01/26	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			▽ = 0 ▽C = 0		mm	INCH	DRAWN BY ----		MICRO-CHANGE CORDSET 3/4/5-POL FE STR SE 22/3-5 PVC BLACK CABLE			
				4 PLACES	±---	±---	DATE ----					
				3 PLACES	±---	±---	CHECKED BY RE					
				2 PLACES	±---	±.01	DATE 2010/01/21					
				1 PLACE	±0.3	±---	APPROVED BY NSTAUDIG		DATE 2010/01/25		molex	MOLEX INCORPORATED
			ANGULAR ± --- °									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE SHEET 2		DOCUMENT NO. SD-120065-038		SHEET NO. 1 OF 1			
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

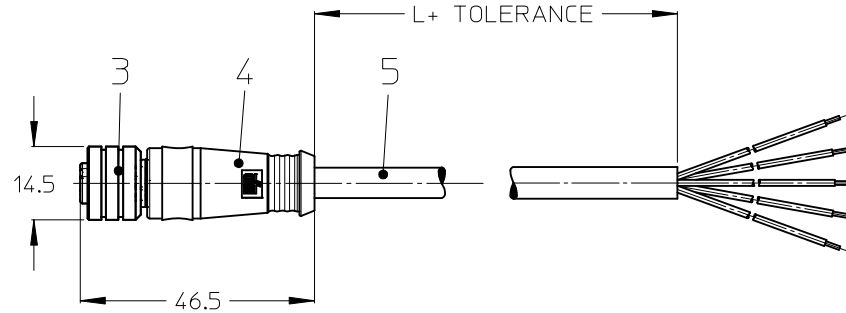
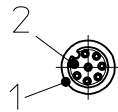
POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
3	1200060001	803000E03M020	6.56' +3.50" -0 [2.0M +88.9 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
4	1200060014	804000E03M020	6.56' +3.50" -0 [2.0M +88.9 -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
5	1200060634	805000E03M020	6.56' +3.5" -0 (2.0M +89mm -0)

DESCRIPTION EC NO: WEU2010-0283 DRWN: LSTEMMLE 2010/01/20 CHKD: NS APPR: NSTAUDIG 2010/01/26	DESCRIPTION REV	QUALITY SYMBOLS ▽ = 0 ▽C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY ----		MICRO-CHANGE CORDSET 3/4/5-POL FE STR SE 22/3-5 PVC BLACK CABLE					
				±---	±---	DATE ----							
				±---	±---	CHECKED BY RE		MOLEX INCORPORATED					
				±---	±.01	DATE 2010/01/21							
				±0.3	±---	APPROVED BY NSTAUDIG						 DOCUMENT NO. SD-120065-038	
			ANGULAR ± --- °			DATE 2010/01/25							
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE TABLE							
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

STRAIGHT PLUG 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

CABLE 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 -			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 2012/04/23 CHKD:APOHL 2013/11/15 APPR:APOHL 2013/11/18	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 2012/04/23	TITLE CSE M12 XP AC FE STR XM SE UNSH					
			4 PLACES	± ---	± ---	CHECKED BY APOHL	DATE 2013/11/15						
			3 PLACES	± ---	± ---	APPROVED BY APOHL 2013/11/18		molex					
			2 PLACES	± 0.05	± ---								
			1 PLACE	± 0.10	± ---								
			0 PLACE	± ---	± ---								
			ANGULAR ± .5 °			MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-120065-050				1 OF 5	
						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
8 = 8 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 2012/04/23 CHKD:APOHL 2013/11/15 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 DATE	TITLE			
1	REV				4 PLACES	± ---	± ---	PMERUNKA	2012/04/23	CSE M12 XP AC FE STR XM SE UNSH		
					3 PLACES	± ---	± ---	CHECKED BY DATE				
					2 PLACES	± 0.05	± ---	APOHL	2013/11/15	molex		
					1 PLACE	± 0.10	± ---	APPROVED BY DATE				
					0 PLACE	± ---	± ---	APOHL	2013/11/18			
		ANGULAR ± .5 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-120065-050		2 OF 5				
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	10	9	8	7	6	5	4	3	2	1																																																																					
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E											E																																																																				
D											D																																																																				
C											C																																																																				
B											B																																																																				
A											A																																																																				
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					mm	INCH	DRAWN BY DATE	TITLE			
1	REV			4 PLACES	± ---	± ---	PMERUNKA	2012/04/23	CSE M12 XP AC FE STR XM SE UNSH		
				3 PLACES	± ---	± ---	CHECKED BY	DATE			
				2 PLACES	± 0.05	± ---	APOHL	2013/11/15			
				1 PLACE	± 0.10	± ---	APPROVED BY	DATE			
				0 PLACE	± ---	± ---	APOHL	2013/11/18			
				ANGULAR ± .5 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-120065-050		3 OF 5	
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F

E

D

C

B

A

1200650955	808000P02M080
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1200650957	808000P02M100
1200658021	808000P02M150
1200651817	808000P02M200
1200651818	808000P02M250
1200651820	808000P02M300
1200658103	808000P19M005
1200062765	808000P19M020
1200062675	808000P19M030
1200651796	808000P19M040
1200062676	808000P19M050
1200655074	808000P19M060
1200652019	808000P19M100
1200658104	808000P19M150
1200655040	80C000H45M020
1200655041	80C000H45M040
1200655042	80C000H45M050
1200655044	80C000H45M100
1200659119	803000I03M020Y
1200678393	8030P0I03M050Y
1200659054	803000E03M050Y
1200659055	803000E03M100Y
1200659064	803000I03M050Y
1200659073	803000I03M100Y
1200659123	804000P03M100HY
1200678387	8040P0I03M050Y
1200659058	804000E03M050Y
1200659059	804000E03M100Y
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1200659065	804000I03M100Y
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1200659067	804000P82M1007Y
1200659075	804000I03M020Y

1200659076	804000S20M100Y
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1200659088	804000P03M050HY
1200698319	804S00P20M050Y
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1200678365	8040P0E03M100Y
1200659116	805000I26M050Y
1200659082	805000E03M100Y
1200659085	805000I03M050Y
1200659090	805000I26M100Y
1200659092	808000P02M050Y
1200659100	808000E02M050Y
1200659102	808000H08M100Y
1200659103	808000E02M100Y
1200659106	808000E02M150Y
1200659107	808000H08M150Y
1200659214	805000P03M300
1200659224	805006P03M200
1200659225	805006P03M300
1200659230	805007P03M010
1200659231	805007P03M200
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1200652248	803000B30M020
1200652249	803000B30M050
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1200652251	804000B30M010
1200652252	804000B30M020
1200652253	804000B30M050
1200652254	804000B30M100
1200652255	805000B30M010
1200652256	805000B30M020
1200652257	805000B30M050
1200652258	805000B30M100

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			0 PLACE	± ---	± ---	DOCUMENT NO. SD-120065-050		SHEET NO. 5 OF 5		
			ANGULAR ± .5 °							
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