

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

SPECIAL TYPES

8	8	X	0	3	2	X	X	X	X	X	X	X	X	X
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88 = M12x1
Double ended

Poles:
3 = 3 Poles
4 = 4 Poles
5 = 5 Poles
8 = 8 Poles

Heads style:
032 = Plugs FE Straight &
Male 90°

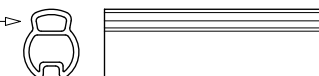
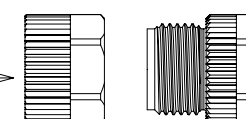
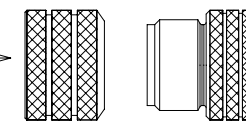
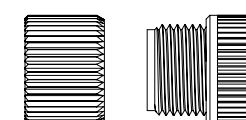
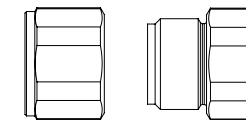
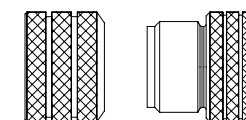
Cable types: E02=0.25mm² PVC Black E03=0.34mm² PVC Black E13=0.75mm² PVC Yellow E52=0.34mm² PVC Grey (RAL 7001) E57=0.34mm² PVC Grey (RAL 7001) H09=0.34mm² PUR Black H69=0.34mm² PUR Grey LSOH SCR I02=0.25mm² PVC Grey CEI I03=0.34mm² PVC Grey CEI I20=0.25mm² PVC Grey CEI SCR DC I26=0.34mm² PVC Grey CEI SCR AC P02=0.25mm² PUR/PVC Black P03=0.34mm² PUR/PVC Black P08=0.25mm² PUR Yellow HIFLEX P20=0.34mm² PUR Grey LSOH braid P82=0.34mm² PUR orange irradiated DC S20=0.34mm² PVC Yellow SJTO braid

Units:
C = Centimeter
M = Meter
K = Killometer
F = Feet

Length
Examples:
020 = 2 M
060 = 6 M
100 = 10 M

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 SPECIFICATION

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 / 4 / 5 / 8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E52	4	0.34mm²	PVC GRAY	-	-	- 30 to + 70°C	- 5 to + 70°C	-	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LSOH	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H69	4	0.2mm²	PUR LSOH	-	-	-	-40°C to +80°C	-	-
P02	3 / 4 / 5 / 8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
P82	4	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C,	-50°C to +105°C,	-	-
I03	4	0.34mm²	PVC GRAY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
K03	4	AWG18	TPE YELLOW	ITC E195601 OR PLTC	AWM I/II A/B FT4 LL54185	-	-40°C to +105°C	-	-
K05	4	0.34mm²	TPE YELLOW	ITC E195601 OR PLTC	AWM I/II A/B FT4 LL54185	-	-40°C to +105°C	-	-
S20	4	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 AWM II	-30°C to +105°C	-40°C to +105°C	-	-

CABLE LENGTH TOLERANCE

OVER	UPTO AND INCULDING	TOLERANCE
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED PNS 1200669890 & 1200669891			molex					
	mm		1:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE M12 XP AC FE STR MA RA XM					
	ANGULAR TOL ± 1.0°												
	4 PLACES		±		EC NO: 698496 DRWN: MDHARMANTI 2022/03/07 CHK'D: RSILLER 2022/03/07 APPR: RSILLER 2022/03/07								
	3 PLACES		±										
2 PLACES		± 0.05											
1 PLACE		± 0.3											
0 PLACES		± 0.5		INITIAL REVISION: DRWN: DSOPPIN 2018/10/27 APPR: RSILLER 2018/10/22			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							1200070026		PSD	000	A6		
DIVISIONAL SYMBOLS	THIRD ANGLE PROJECTION				DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER			
					A3-SIZE	120007	SEE PART LIST	GENERAL MARKET		2 OF 4			

CONTACT POSITION FRONT VIEW:

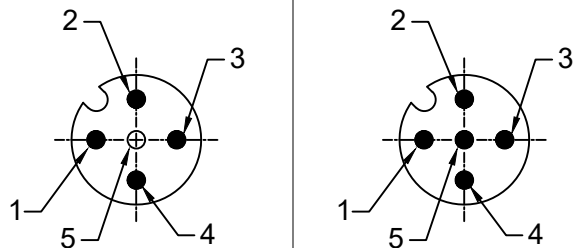
3 POLES FEMALE		3 POLES MALE		4 POLES FEMALE		4 POLES MALE		5 POLES FEMALE		5 POLES MALE		8 POLES FEMALE		8 POLES MALE	
PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE	1	WHITE
2	-	2	-	2	WHITE	2	WHITE	2	WHITE	2	WHITE	2	BROWN	2	BROWN
3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN	3	GREEN
4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW	4	YELLOW
5	-	5	-	5	-	5	-	5	GREY OR GREEN/YELLOW	5	GREY OR GREEN/YELLOW	5	GREY	5	GREY
CODING REQUIRED TO IEC 61076-2-101				CODING REQUIRED TO IEC 61076-2-101				CODING REQUIRED TO IEC 61076-2-101				6	PINK	6	PINK
								CODING REQUIRED TO IEC 61076-2-101				7	BLUE	7	BLUE
												8	RED	8	RED
												CODING REQUIRED TO IEC 61076-2-101			

FUNCTIONAL SYMBOLS F_A = 0 F_C = 0 F_E = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
	DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED PNS 1200669890 & 1200669891					molex CSE M12 XP AC FE STR MA RA XM							
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)																
	ANGULAR TOL ± 1.0 °																
	4 PLACES		±							PRODUCT CUSTOMER DRAWING							
	3 PLACES		±														
	2 PLACES		± 0.05		DOCUMENT NUMBER 1200070026					DOC TYPE PSD		DOC PART 000		REVISION A6			
	1 PLACE		± 0.3														
	0 PLACES		± 0.5														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER			CUSTOMER			SHEET NUMBER	
				A3-SIZE		120007		SEE PART LIST			GENERAL MARKET			3 OF 4			

NO.	MOLEX PN	ENGINEERING PN	LENGTH (mm)
53	1200661017	884032K03M050	5000
54	1200661018	884032K03M060	6000
55	1200661021	884032K03M090	9000
56	1200661022	884032K03M100	10000
57	1200661023	884032K03M120	12000
58	1200661480	884032K03M200	20000
59	1200660398	884032K05M005	500
60	1200660400	884032K05M010	1000
61	1200660401	884032K05M015	1500
62	1200660402	884032K05M020	2000
63	1200660403	884032K05M030	3000
64	1200073045	884032K05M035	3500
65	1200660404	884032K05M040	4000
66	1200660405	884032K05M050	5000
67	1200660406	884032K05M060	6000
68	1200073042	884032K05M070	7000
69	1200661540	884032K05M080	8000
70	1200668345	884032P03M002G	200
71	1200072838	884032P03M003	300
72	1200071519	884032P03M006	600
73	1200071407	884032P03M010	1000
74	1200070547	884032P03M0105	1000
75	1200669261	884032P03M015	1500
76	1200070026	884032P03M020	2000
77	1200071520	884032P03M030	3000
78	1200070914	884032P03M050	5000
79	1200072213	884032P03M1005	10000
80	1200668077	884032P82M0037	300
81	1200668343	884032P82M0067	600
82	1200668267	884032P82M0107	1000
83	1200668282	884032P82M0157	1500
84	1200668078	884032P82M0207	2000
85	1200668177	884032S20M020	2000
86	1200668161	884032S20M030	3000
87	1200070907	884032S20M050	5000
88	1200668974	885032E03M003	300
89	1200668979	885032E03M006	600
90	1200071271	885032E03M010	1000
91	1200668092	885032E03M020	2000
92	1200668975	885032E03M025	2500
93	1200668976	885032E03M030	3000
94	1200668977	885032E03M050	5000
95	1200668978	885032E03M100	10000
96	1200668493	885032H09M010	1000
97	1200668603	885032P03M020G	2000
98	1200661925	885032P03M080	8000
99	1200661926	885032P03M100	10000
100	1200669119	885032P03M190	19000
101	1200669767	888032E02M0201	2000
102	1200669768	888032E02M0301	3000
103	1200669769	888032E02M0501	5000

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FUNCTIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED PNS 1200669890 & 1200669891			molex								
		mm		1:1													
DIVISIONAL SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 698496 DRWN: MDHARMANTI CHK'D: RSILLER APPR: RSILLER			CSE M12 XP AC FE STR MA RA XM								
		ANGULAR TOL ± 1.0 °															
		4 PLACES		±											2022/03/07		
		3 PLACES		±					2022/03/07								
		2 PLACES		± 0.05					2022/03/07								
		1 PLACE		± 0.3													
0 PLACES		± 0.5				2018/09/27 2018/10/22		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
								A3-SIZE		120007		SEE PART LIST		GENERAL MARKET		4 OF 4	

FEMALE FACE VIEW	
4 POLE	5 POLE
Diagram of a 4-pole female face view. It shows a circular face with four poles labeled 1, 2, 3, and 4. Pole 1 is at the 9 o'clock position, pole 2 is at 12 o'clock, pole 3 is at 3 o'clock, and pole 4 is at 6 o'clock. A central crosshair is shown, and a small circle is at the center. Pole 5 is not used.	Diagram of a 5-pole female face view. It shows a circular face with five poles labeled 1, 2, 3, 4, and 5. Pole 1 is at the 9 o'clock position, pole 2 is at 12 o'clock, pole 3 is at 3 o'clock, pole 4 is at 6 o'clock, and pole 5 is at 9 o'clock. A central crosshair is shown, and a small circle is at the center.
WIRING DIAGRAM	
1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 NOT USED	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY



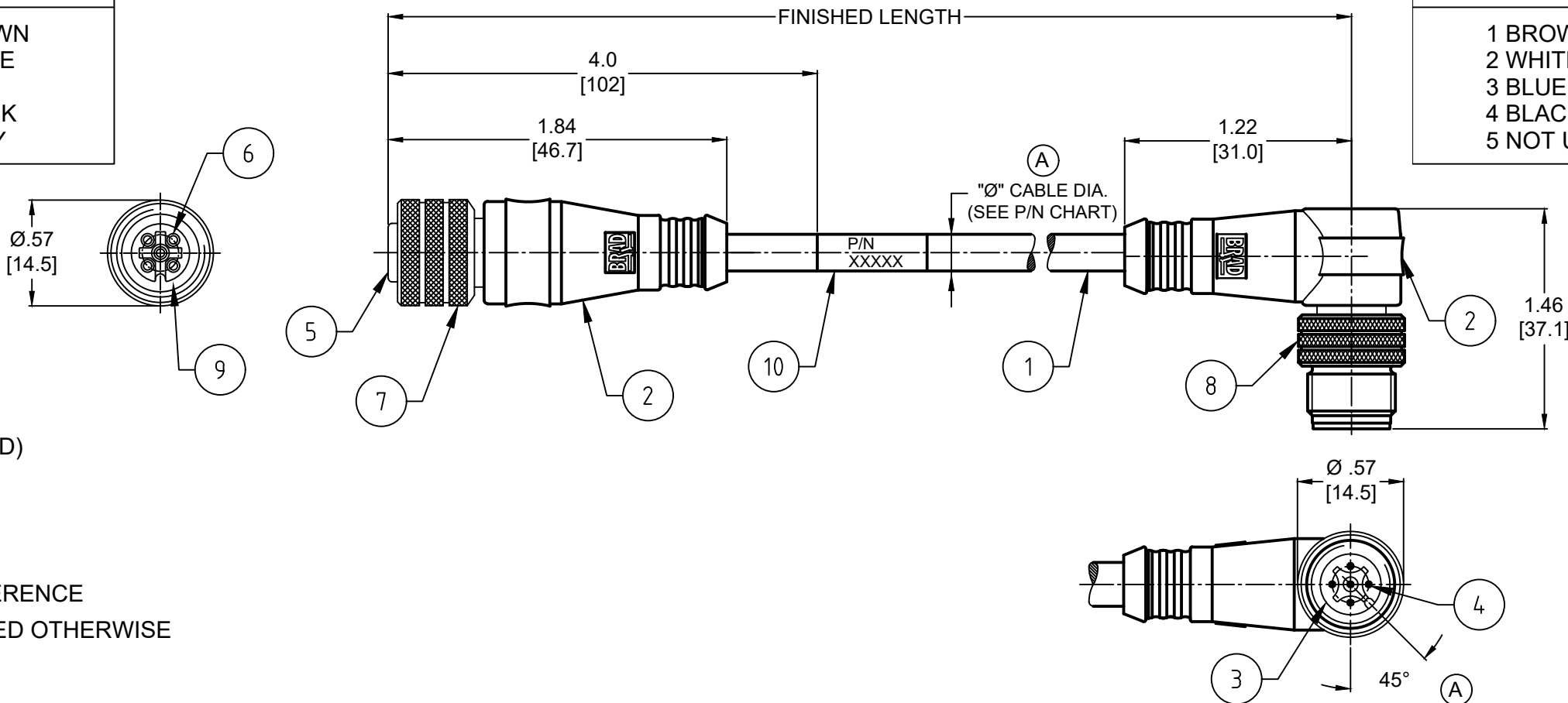
1 BROWN	1 BROWN
2 WHITE	2 WHITE
3 BLUE	3 BLUE
4 BLACK	4 BLACK
5 NOT USED	5 GREY

1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
4. TEMP RATING: -20°TO +105°C
5. PROTECTION: IP67 (WHEN MATED)
6. COUPLING THREAD: M12X1
7. UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR6837 (A)
8. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

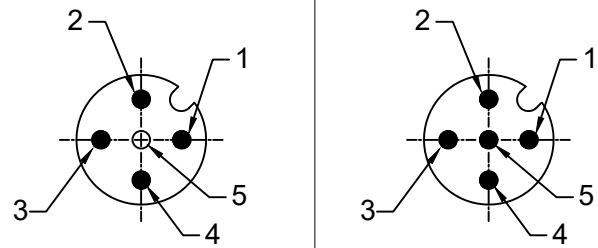
TORSIONAL FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
BEND FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
WELD SLAG RESISTANCE	WOODHEAD STANDARD S-300

10	LABEL	VINYL	BLACK/YELLOW
9	O-RING	VITON	RED
8	MALE COUPLING NUT	BRASS	NICKEL PLATED
7	FEMALE COUPLING NUT	BRASS	NICKEL PLATED
6	CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
5	INSERT (FEMALE)	PUR	BLACK
4	CONTACT PIN	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT (MALE)	PUR	BLACK
2	OVERMOLD	TPC	YELLOW
1	CABLE #18/4-5 AWG	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

PART NO	ENGINEERING NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200661010	884032K03M004	0.4M [1FT 4 IN]	4	.26/6.6
1200661024	884032K03M150	15M [49FT 3 IN]		
1200661053	885032K03M005	0.5M [1FT 8 IN]	5	.28/7.1
1200661059	885032K03M050	5M [16FT 5 IN]		



MALE FACE VIEW	
4 POLE	5 POLE
WIRING DIAGRAM	
1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 NOT USED	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY



1 BROWN	1 BROWN
2 WHITE	2 WHITE
3 BLUE	3 BLUE
4 BLACK	4 BLACK
5 NOT USED	5 GREY

884032K03M004

POLES	FINISHED LENGTH
(4 & 5)	M005 = 0.5 METER
	M010 = 1 METER
	M100 = 10 METER

CABLE LENGTH TOLERANCES
 <.3M [1FT]: +19mm-0 [+.75in-0]
 .3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]
 .9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]
 1.8 - 3.7M [6 - 12FT]: +88.9mm-0 [+3.50in-0]
 3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]
 7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]
 14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]
 OVER 30M [100FT] +2% OF FINISHED LENGTH

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
0 6 12		DIMENSION UNITS		SCALE		CURRENT REV DESC: ITEM #2 WAS TPE & #10 WAS MYLAR. REMOVED 3 POLE DETAILS. ADDED UL, CSA, TOL CHART & CABLE DIA. MODIFIED PN CHART				molex							
		INCH/MM		NTS													
		GENERAL TOLERANCES (UNLESS SPECIFIED)						EC NO: 671333 DRWN: ABENJAMINLW2021/05/04 CHK'D: RSTONE2021/07/23 APPR: BWOODMAN2021/07/28 INITIAL REVISION: DRWN: LSTEMMLE2010/02/01 APPR: FPACHER2010/02/03				MICRO-CHANGE CORDSET, M12 4-5 POLE, FEMALE STRAIGHT - MALE 90DEG, SINGLE KEY, #18 AWG TPE HI-FLEX					
	mm	INCH															
4 PLACES	±----	±----															
3 PLACES	±----	±----															
2 PLACES	±----	±----															
DIVISIONAL SYMBOLS		1 PLACE		±----		±----		PRODUCT CUSTOMER DRAWING									
		0 PLACES		±----		±----											
				ANGULAR TOL		± ---- °		DOCUMENT NUMBER SD-120066-022				DOC TYPE PSD		DOC PART 001		REVISION A	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING A3-SIZE		SERIES 120066		MATERIAL NUMBER SEE CHART		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 1	