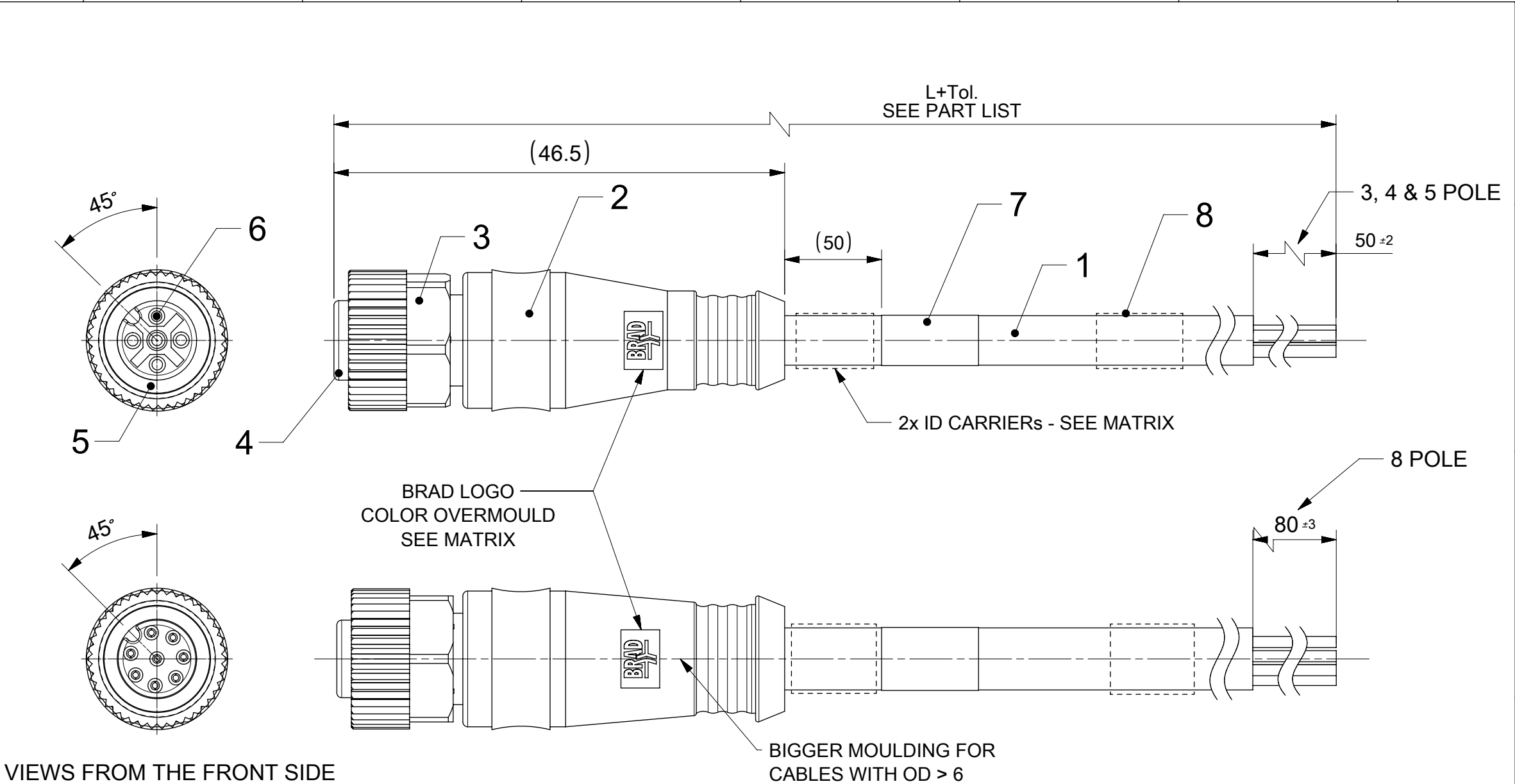
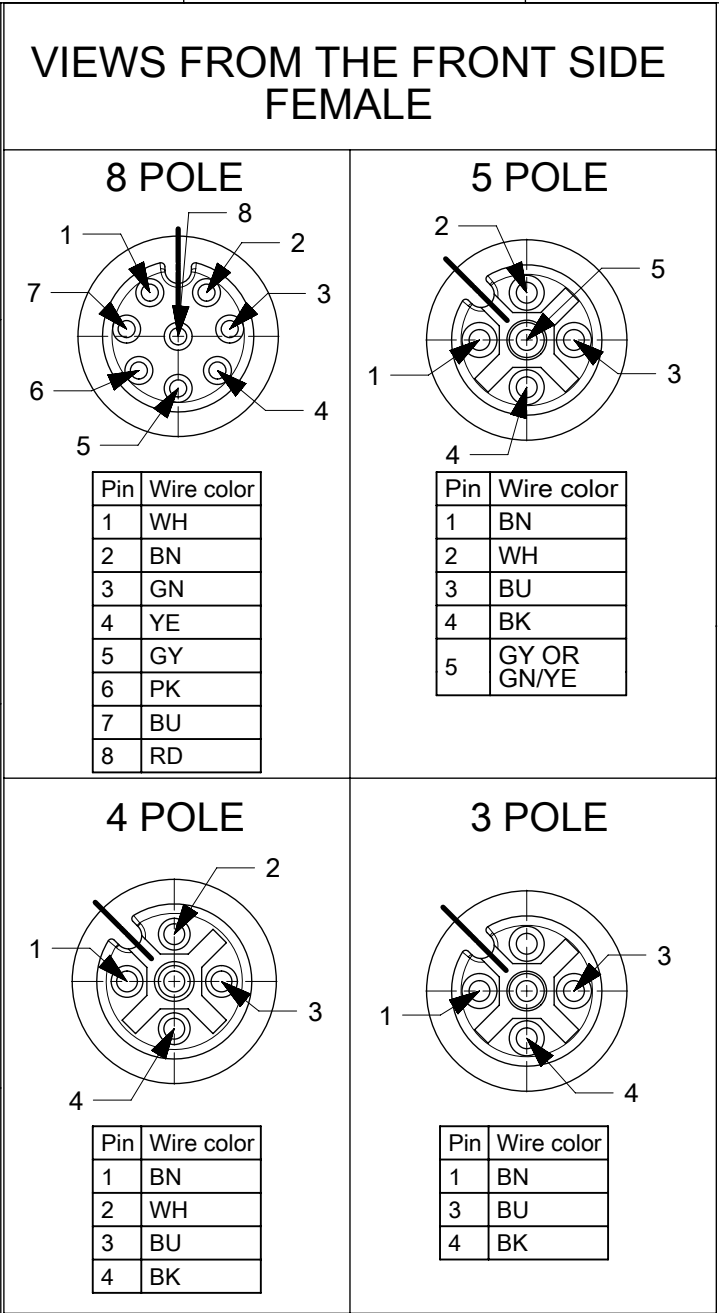




NOTES:

TEMPERATURE RANGE : SEE CABLE LIST

RATED VOLTAGE: 3, 4 contacts : 250V

5 contacts : 60V

8 contacts : 30V

RATED CURRENT: 3, 4, 5 contacts : 4A

8 contacts : 2A

INSULATION RESISTANCE: 10⁸ Ω MIN.

MATING CYCLES: MIN. 100

ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION

BILL OF MATERIAL

8	0/2	I/D CARRIER	-	-
7	1	LABEL	VINYL	YELLOW
6	3/4/5/8	CONTACTS	BRASS	GOLD OVER Ni-PLATED
5	1	GASKET	FPM	RED
4	1	FEMALE INSERT	PUR	BLACK
3	1	COUPLING NUT	BRASS	Ni-PLATED
2	-	OVERMOULD	TPU	BLACK
1	-	CABLE	SEE CABLE LIST	SEE CABLE LIST
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR

FUNCTIONAL SYMBOLS FA=0 FE=0 FE=0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC: CABLE LIST INFORMATIONS ADDED				
	DIMENSION UNITS mm	SCALE 2:1	EC NO: 788824			
	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: RSCHIEBER 2024/06/07			
	ANGULAR TOL ± 1.0 °		CHK'D: RSILLER 2024/06/11			
	4 PLACES ±		APPR: RSILLER 2024/06/11			
DIVISIONAL SYMBOLS	3 PLACES ±	INITIAL REVISION:				
	2 PLACES ± 0.05	DRWN: SSM 2021/12/16				
	1 PLACE ± 0.3	APPR: RSILLER 2022/02/28				
	0 PLACES ± 0.5	THIRD ANGLE PROJECTION				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING A3-SIZE	SERIES 120065	MATERIAL NUMBER SEE PART LIST	CUSTOMER GENERAL MARKET

molex

CSE M12 XP AC FE STR WSOR XM SE UNSH BK

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER
1200652251

DOC TYPE
PSD

DOC PART
000

REVISION
B1

8 0 X 0 0 0 B X X X X X X X X

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES
8 = 8 POLES

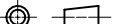
CABLE:
 B30 = 0,34mm², TPU BLACK
 B33 = 0,34mm², TPU GREY
 B36 = 0,34mm², TPU ORANGE
 B39 = 0,75mm², TPU BLACK
 B41 = 0,25mm², TPU BLACK
 B42 = 0,34mm², TPU BLACK
 B49 = 0,25mm², TPU ORANGE
 B55 = 0,34mm², TPU YELLOW

LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

CABLE LIST

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL 21215	CSA	ISO6722	ISO14572	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	OTHER
B30	3 / 4 / 5	0.34mm ²	TPU Black	YES	YES	YES	YES	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	WELD SLAG RESISTANCE
B41	8	0.25mm ²	TPU Black								
B42	5	0.34mm ²	TPU Black								
B33	4 / 5	0.34mm ²	TPU Gray								
B55	4 / 5	0.34mm ²	TPU Yellow								
B36	4 / 5	0.34mm ²	TPU Orange								
B39	5	0.34mm ²	TPU Yellow								

LENGTH	TOLERANCE
0 m - 1 m	+40 mm
>1 m - 5 m	+60 mm
>5 m - 10 m	+80 mm
>10 m - 20 m	+140 mm
>20 m - 30 m	+160 mm
>30 m	+1% 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: CABLE LIST INFORMATIONS ADDED				molex											
	mm		1:1																	
	GENERAL TOLERANCES (UNLESS SPECIFIED)								EC NO: 788824 DRWN: RSCHIEBER 2024/06/07 CHK'D: RSILLER 2024/06/11 APPR: RSILLER 2024/06/11				CSE M12 XP AC FE STR WSOR XM SE UNSH BK							
	ANGULAR TOL ± 1.0°																			
	4 PLACES		±		PRODUCT CUSTOMER DRAWING															
	3 PLACES		±																	
	2 PLACES		± 0.05																	
	1 PLACE		± 0.3																	
	DIVISIONAL SYMBOLS	0 PLACES		± 0.5		INITIAL REVISION: DRWN: SSM 2021/12/16 APPR: RSILLER 2022/02/28				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				1200652251						PSD		000		B1						
				THIRD ANGLE PROJECTION						DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
										A3-SIZE		120065		SEE PART LIST		GENERAL MARKET		2 OF 3		

F

EDCBA

1

F



D

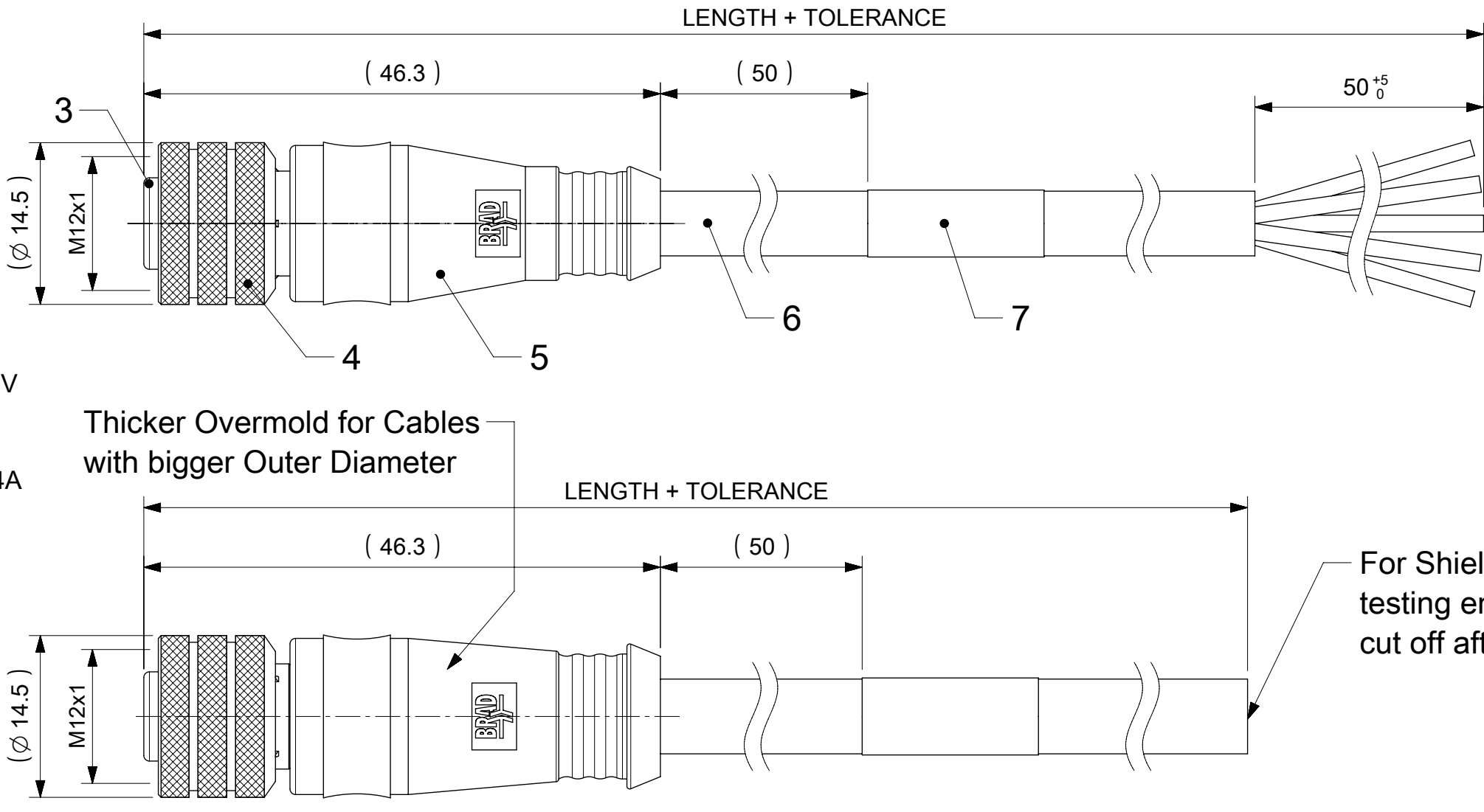
CA

1

A

FEMALE PLUG M12 STRAIGHT

NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
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	
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 OR YELLOW/GREEN	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY OR YELLOW/GREEN	5	GREY
						6	PINK
						7	BLUE
						8	RED

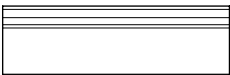
CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING 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 M12 FEMALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
DIMENSION UNITS		CURRENT REV DESC: ADDED NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022		
mm		molex CSE M12 XP AC FE STR XM SE UNSH PRODUCT CUSTOMER DRAWING		
SCALE				
GENERAL TOLERANCES (UNLESS SPECIFIED)				
ANGULAR TOL ± 1.0 °				
4 PLACES ±		EC NO: 775470 DRWN: AKABADI 2023/10/22 CHK'D: THAERDT 2024/01/30 APPR: THAERDT 2024/01/30		
3 PLACES ±		INITIAL REVISION: DRWN: JMARSZALEK 2016/01/12 APPR: RSILLER 2016/04/08		
2 PLACES ± 0.05		DOCUMENT NUMBER		
1 PLACE ± 0.3		1200658605		
0 PLACES ± 0.5		DOC TYPE DOC PART REVISION		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PSD 000 A7		
THIRD ANGLE PROJECTION		SHEET NUMBER		
		1 OF 4		
DRAWING				
A3-SIZE				
SERIES				
MATERIAL NUMBER				
SEE PART LIST				
CUSTOMER				
GENERAL MARKET				

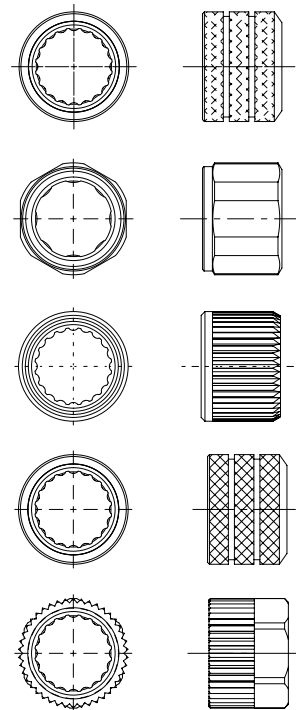
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

OPTIONS



H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

COUPLING NUTS



80=M12x1
Single ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

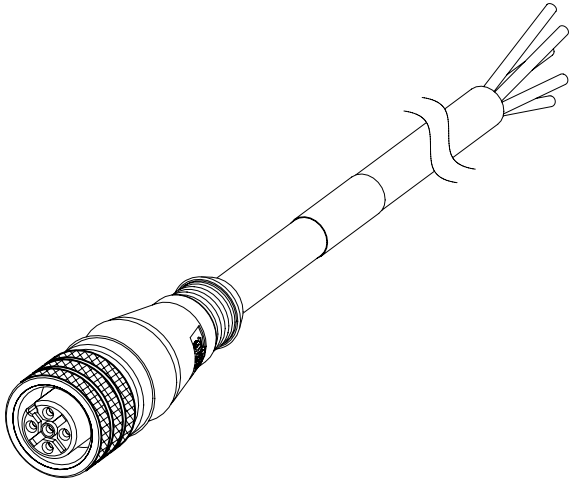
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables A09,S19,S20,S26
Blank=Yellow TPE-E for cables K03,K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard) & 3=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

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
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E63	5	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
H12	4	0.50mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-50°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000, Temp max 60°C	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
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	-	-
I04	4	0.50mm²	PVC CEI GREY	-	-	-25°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	-	-
K03	4 / 5	0.34mm²	TPE YELLOW	UL JEC 60332-1 or PLCT	I/II 90°C/300V	-	-	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-	-
P12	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
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



SCALE 1:1

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: ADDED NEW P/N:
1200651287; 1200651293; 1200651300; 1200652022

EC NO: 775470
DRWN: AKABADI
CHK'D: THAERDT
APPR: THAERDT

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2023/10/22
2024/01/30
2024/01/30

DOCUMENT NUMBER
1200658605

DOC TYPE
PSD

DOC PART
000

REVISION
A7

SHEET NUMBER
2 OF 4

moLEX

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

10	9	8	7	6	5	4	3	2	1
PART LIST									
MOLEX P/N			ENGINEERING No.		L [mm]				
3P CABLE E13									
1200658524	803000E13M030	3000							
3P CABLE E52									
1200651767	803000E52M050A	5000							
1200658293	803000E52M3001A	30000							
4P CABLE E52									
1200064254	804000E52M010A	1000							
1200651778	804000E52M050A	5000							
1200651857	804000E52M100A	10000							
1200060436	804000E52M200A	20000							
1200061620	804000E52M3001A	30000							
1200063819	804000E52K0011A	100000							
8P CABLE E52									
1200657335	808000E52M005	500							
1200658236	808000E52M020	2000							
1200062049	808000E52M050	5000							
1200659997	808000E52M100	10000							
5P CABLE E63									
1200658015	805000E63M020A	2000							
1200061936	805000E63M050A	5000							
4P CABLE H12									
1200659593	804000H12M020	2000							
1200659767	804000H12M0209	2000							
1200659768	804000H12M0309	3000							
1200659113	804000H12M050	5000							
1200659769	804000H12M0509	5000							
1200659271	804000H12M100	10000							
1200659770	804000H12M1009	10000							
3P CABLE H69									
1200062094	803000H69M050	5000							
4P CABLE H69									
1200061680	804000H69M050	5000							
1200658242	804000H69M300	30000							
8P CABLE I02									
1200658677	808000I02M010	1000							
1200658678	808000I02M020	2000							
1200658679	808000I02M030	3000							
1200658680	808000I02M040	4000							
1200658681	808000I02M050	5000							
1200658682	808000I02M100	10000							
MOLEX P/N			ENGINEERING No.		L [mm]				
3P CABLE I03									
1200060145	803000I03M020	2000							
1200659119	803000I03M020Y	2000							
1200658593	803000I03M040	4000							
1200060030	803000I03M050	5000							
1200659064	803000I03M050Y	5000							
1200060148	803000I03M100	10000							
4P CABLE I03									
1200658599	804000I03M010	1000							
1200658701	804000I03M010G	1000							
1200060452	804000I03M020	2000							
1200658702	804000I03M020G	2000							
1200659075	804000I03M020Y	2000							
1200060454	804000I03M030	3000							
1200658703	804000I03M030G	3000							
1200659177	804000I03M030Y	3000							
1200658600	804000I03M040	4000							
1200658704	804000I03M040G	4000							
1200060017	804000I03M050	5000							
1200658705	804000I03M050G	5000							
1200659060	804000I03M050Y	5000							
1200063205	804000I03M060	6000							
1200064230	804000I03M080	8000							
1200060033	804000I03M100	10000							
1200061970	804000I03M100A	10000							
1200658706	804000I03M100G	10000							
1200659065	804000I03M100Y	10000							
1200061955	804000I03M200A	20000							
1200061956	804000I03M300A	30000							
1200061957	804000I03M400A	40000							
5P CABLE I03									
1200658605	805000I03M010	1000							
1200658283	805000I03M020	2000							
1200060644	805000I03M030	3000							
1200658606	805000I03M040	4000							
1200062003	805000I03M050	5000							
1200063824	805000I03M050G	5000							
1200659085	805000I03M050Y	5000							
1200060645	805000I03M100	10000							
1200655025	805000I03M100G	10000							
1200659371	805000I03M100Y	10000							
MOLEX P/N			ENGINEERING No.		L [mm]				
4P CABLE I04									
1200063562	804000I04M030	3000							
1200659621	804000I04M050	5000							
3P CABLE I20									
1200061559	803000I20M100	10000							
1200659558	803000I20M100Y	10000							
4P CABLE I20									
1200064164	804000I20M020	2000							
1200658221	804000I20M050	5000							
1200064161	804000I20M100	10000							
1200658543	804000I20M150	15000							
5P CABLE I26									
1200658817	805000I26M010	1000							
1200061727	805000I26M050	5000							
1200659116	805000I26M050Y	5000							
1200062969	805000I26M100	10000							
1200659090	805000I26M100Y	10000							
4P CABLE K03									
1200652022	804000K03M006	600							
1200651287	804000K03M010	1000							
1200651293	804000K03M050	5000							
1200651300	804000K03M100	10000							
5P CABLE K03									
1200651367	805000K03M020	2000							
1200651370	805000K03M050	5000							
1200651373	805000K03M100	10000							
3P CABLE K05									
1200651108	803000K05M020	2000							
1200651110	803000K05M050	5000							
4P CABLE K05									
1200651121	804000K05M020	2000							
1200651122	804000K05M030	3000							
1200651124	804000K05M050	5000							
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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 NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022				mo lex	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 1.0 °									
4 PLACES ±				EC NO: 775470				CSE M12 XP AC FE STR XM SE UNSH	
3 PLACES ±				DRWN: AKABADI 2023/10/22					
2 PLACES ± 0.05				CHK'D: THAERDT 2024/01/30 APPR: THAERDT 2024/01/30					
1 PLACE ± 0.3				INITIAL REVISION:				PRODUCT CUSTOMER DRAWING	
0 PLACES ± 0.5				DRWN: JMARSZALEK 2016/01/12 APPR: RSILLER 2016/04/08				DOCUMENT NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		SHEET NUMBER	
				A3-SIZE		120065		3 OF 4	
DOCUMENT STATUS		P1	RELEASE DATE	2024/01/30	10:40:43				
9		8		7		6		5	
4		3		2		1			

10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																																																						
PART LIST																																																																																																																																																																																																																																																																																															
<table><tr><td>MOLEX P/N</td><td>ENGINEERING No.</td><td>L [mm]</td></tr><tr><td colspan="3">4P CABLE P04</td></tr><tr><td>1200063017</td><td>804000P04M0083</td><td>800</td></tr><tr><td>1200063114</td><td>804000P04M0163</td><td>1600</td></tr><tr><td>1200062364</td><td>804000P04M020G</td><td>2000</td></tr><tr><td colspan="3">3P CABLE P12</td></tr><tr><td>1200063141</td><td>803000P12M0033</td><td>300</td></tr><tr><td colspan="3">5P CABLE P12</td></tr><tr><td>1200063041</td><td>805000P12M0033</td><td>300</td></tr><tr><td>1200658086</td><td>805000P12M020</td><td>2000</td></tr><tr><td>1200064445</td><td>805000P12M023</td><td>2300</td></tr><tr><td>1200659393</td><td>805000P12M050</td><td>5000</td></tr><tr><td>1200062858</td><td>805000P12M100</td><td>10000</td></tr><tr><td colspan="3">8P CABLE 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P82			1200062754	803000P82M0047	400	1200062454	803000P82M0067	600	1200064073	803000P82M0107	1000	1200064256	803000P82M0207	2000	1200061240	803000P82M0507	5000	5P CABLE P82			1200065005	805000P82M0207	2000	1200060715	805000P82M050	5000	1200658299	805000P82M100	10000	1200659026	805000P82M1007	10000	8P CABLE S19			1200658256	808000S19M006	600	1200656198	808000S19M010	1000	1200656199	808000S19M020	2000	1200656200	808000S19M030	3000	1200656201	808000S19M050	5000	1200658972	808000S19M100	10000	1200868439	808000S19M150	15000	1200659183	808000S19M150H	15000	1200659175	808000S19M200H	20000	<table><tr><td>MOLEX P/N</td><td>ENGINEERING No.</td><td>L [mm]</td></tr><tr><td colspan="3">3P CABLE 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S20			1200060469	804000S20M010	1000	1200062496	804000S20M010H	1000	1200060470	804000S20M020	2000	1200060471	804000S20M0201	2000	1200062268	804000S20M020H	2000	1200060472	804000S20M030	3000	1200062040	804000S20M030H	3000	1200060474	804000S20M050	5000	1200063859	804000S20M0501	5000	1200063182	804000S20M0501H	5000	1200062037	804000S20M050H	5000	1200060476	804000S20M100	10000	1200063409	804000S20M1001	10000	1200062363	804000S20M100H	10000	1200060478	804000S20M150	15000	1200655010	804000S20M150H	15000	1200063993	804000S20M200	20000	1200063684	804000S20M2001	20000	1200659376	804000S20M350	35000	5P CABLE S20			1200658474	805000S20M020	2000	1200658230	805000S20M050	5000	5P CABLE S26			1200658252	805000S26M020	2000	1200655003	805000S26M050	5000	1200655009	805000S26M100	10000	1200659989	805000S26M200	20000			
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