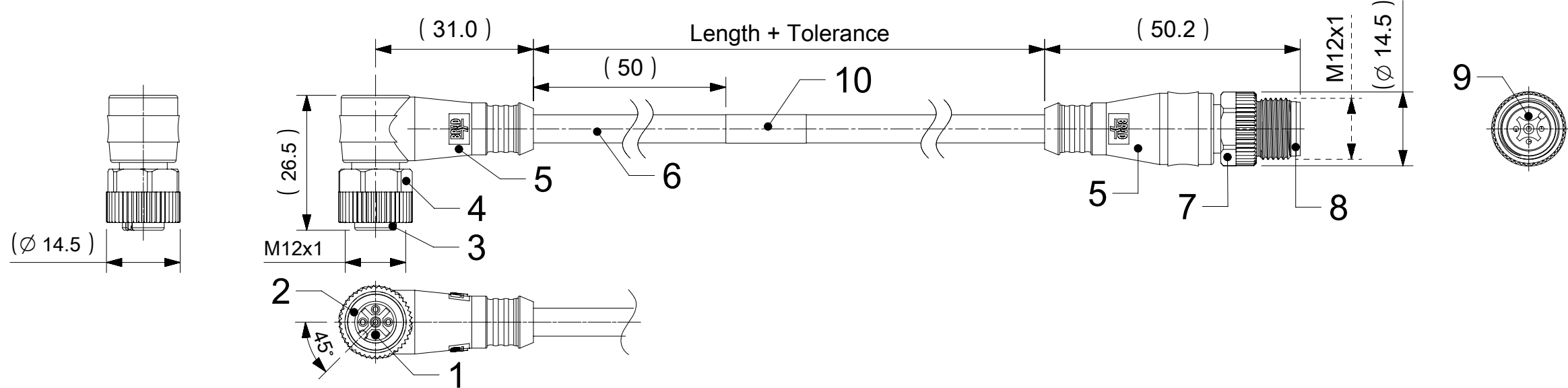


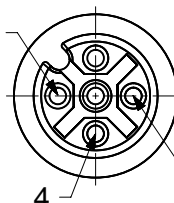
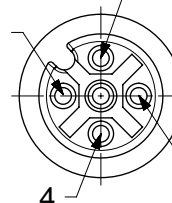
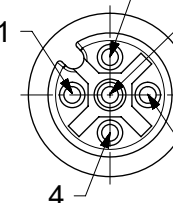
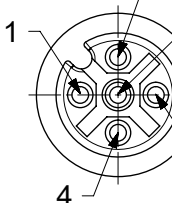
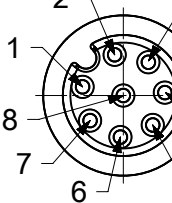
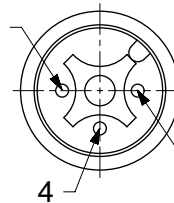
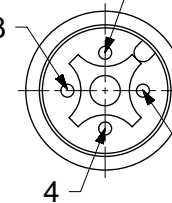
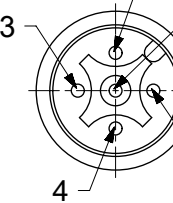
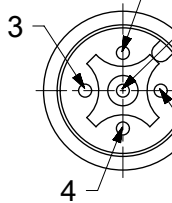
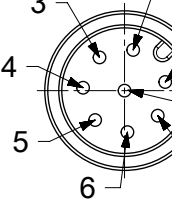
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



NOTES:
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
TEMPERATURE: -25°C / +85°C

Thicker Overmold for Cables with bigger Outer Diameter

CONTACT POSITION FRONT VIEW:

3 POLES		4 POLES		5 POLES		5 POLES		8 POLES		
CABLE	B30, B55	B30, B33, B36, B55	B30, B33, B36, B55	B30, B33, B36, B55	B42	B41, B49				
FEMALE										
										
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	---	5	---	5	GREY	5	GREEN/ YELLOW	5	GREY
									6	PINK
									7	BLUE
						8			RED	
CODING REQUIRED TO IEC 61076-2-101										

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5	CONTACT M12 MALE	COPPER	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
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																			
FUNCTIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: NEW P/N ADDED				molex CSE M12 XP AC FE RA WSOR MA STR XM DE										
	mm		1:1																
	GENERAL TOLERANCES (UNLESS SPECIFIED)																		
= 0	ANGULAR TOL		± 1.0 °		EC NO: 730623 DRWN: RSCHIEBER2022/11/21 CHK'D: RSILLER2022/12/01 APPR: RSILLER2022/12/01				PRODUCT CUSTOMER DRAWING										
= 0	4 PLACES		±											DOCUMENT NUMBER 1200668999 DOC TYPE PSD DOC PART 000 REVISION A8					
= 0	3 PLACES		±																INITIAL REVISION: DRWN: JMARSZALEK2016/08/12 APPR: RSILLER2016/08/29
DIVISIONAL SYMBOLS	2 PLACES		± 0.05		THIRD ANGLE PROJECTION  DRAWING A3-SIZE SERIES 120066					MATERIAL NUMBER SEE SHEET 3 CUSTOMER GENERAL MARKET SHEET NUMBER 1 OF 3									
	1 PLACE		± 0.1																
	0 PLACES		± 0.2																
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																			

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

88X031XXXXXX

88=M12x1
Double ended

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

Heads style:
031=Plug Female 90°
to Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter
T=10x Meter

Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

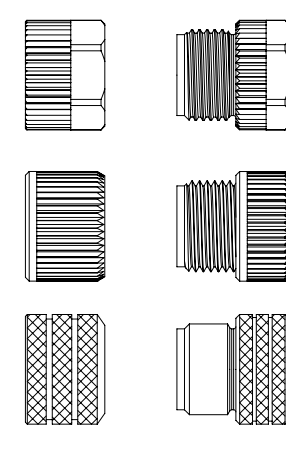
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

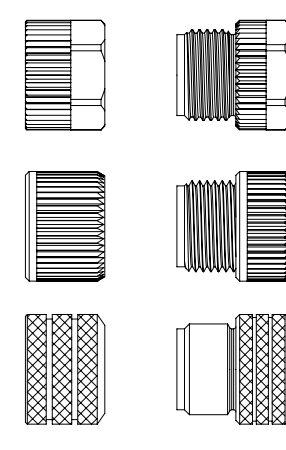
Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated

H= 2 pcs. of I/D Carrier PVC Transparent
(Cable B36 always with
2 pcs. I/D Carrier)

FEMALE

MALE







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: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm²	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	-5°C to +60°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-001
B33	4 / 5	0.34mm²	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-001
B41	8	0.25mm²	TPU Black								SD-120209-006
B42	5	0.34mm²	TPU Black								SD-120209-001
B55	4 / 5	0.34mm²	TPU Yellow								n/a

CABLE LENGTH TOLERANCES		
LENGTH	TOLERANCE	
shorter 1m	+40 mm	-0 mm
1m-5m	+60 mm	-0 mm
5m-10m	+80 mm	-0 mm
10m-20m	+140 mm	-0 mm
20m-30m	+160 mm	-0 mm
longer 30m	+1%	-0 mm

FUNCTIONAL SYMBOLS

 = 0

 = 0

 = 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

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: NEW P/N ADDED

EC NO: 730623
DRWN: RSCHIEBER
CHK'D: RSILLER
APPR: RSILLER

2022/11/21
2022/12/01
2022/12/01

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/08/12
2016/08/29

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

120066



CSE M12 XP AC FE RA WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668999

DOC TYPE

PSD

DOC PART

000

REVISION

A8

MATERIAL NUMBER

SEE SHEET 3

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 3

DOCUMENT STATUS

P1

RELEASE DATE

2022/12/01

14:39:07

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	PART LIST																																																																																																																																																																																																																																																																				
F	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>1</td><td>1200668877</td><td>883031B30M006</td><td>600</td></tr><tr><td>2</td><td>1200668878</td><td>883031B30M010</td><td>1000</td></tr><tr><td>3</td><td>1200668879</td><td>883031B30M020</td><td>2000</td></tr><tr><td>4</td><td>1200668880</td><td>883031B30M030</td><td>3000</td></tr><tr><td>5</td><td>1200668881</td><td>883031B30M050</td><td>5000</td></tr><tr><td>6</td><td>1200668882</td><td>883031B30M100</td><td>10000</td></tr><tr><td>7</td><td>1200668829</td><td>884031B30M006</td><td>600</td></tr><tr><td>8</td><td>1200668830</td><td>884031B30M010</td><td>1000</td></tr><tr><td>9</td><td>1200668831</td><td>884031B30M020</td><td>2000</td></tr><tr><td>10</td><td>1200668832</td><td>884031B30M030</td><td>3000</td></tr><tr><td>11</td><td>1200668833</td><td>884031B30M050</td><td>5000</td></tr><tr><td>12</td><td>1200668834</td><td>884031B30M100</td><td>10000</td></tr><tr><td>13</td><td>1200669285</td><td>884031B30M150</td><td>15000</td></tr><tr><td>14</td><td>1200669520</td><td>884031B30M015</td><td>1500</td></tr><tr><td>15</td><td>1200669566</td><td>884031B30M200</td><td>20000</td></tr><tr><td>16</td><td>1200668997</td><td>885031B30M006</td><td>600</td></tr><tr><td>17</td><td>1200668998</td><td>885031B30M010</td><td>1000</td></tr><tr><td>18</td><td>1200668999</td><td>885031B30M020</td><td>2000</td></tr><tr><td>19</td><td>1200669000</td><td>885031B30M030</td><td>3000</td></tr><tr><td>20</td><td>1200669001</td><td>885031B30M050</td><td>5000</td></tr><tr><td>21</td><td>1200669002</td><td>885031B30M100</td><td>10000</td></tr><tr><td>22</td><td>1200669241</td><td>885031B30M0067</td><td>600</td></tr><tr><td>23</td><td>1200669243</td><td>885031B30M0207</td><td>2000</td></tr><tr><td>24</td><td>1200669371</td><td>885031B30M010H</td><td>1000</td></tr><tr><td>25</td><td>1200669677</td><td>885031B30M150</td><td>15000</td></tr><tr><td>26</td><td>1200669678</td><td>885031B30M200</td><td>20000</td></tr></table>				Lp.	MOLEX PN	ENGINEERING No	L [mm]	1	1200668877	883031B30M006	600	2	1200668878	883031B30M010	1000	3	1200668879	883031B30M020	2000	4	1200668880	883031B30M030	3000	5	1200668881	883031B30M050	5000	6	1200668882	883031B30M100	10000	7	1200668829	884031B30M006	600	8	1200668830	884031B30M010	1000	9	1200668831	884031B30M020	2000	10	1200668832	884031B30M030	3000	11	1200668833	884031B30M050	5000	12	1200668834	884031B30M100	10000	13	1200669285	884031B30M150	15000	14	1200669520	884031B30M015	1500	15	1200669566	884031B30M200	20000	16	1200668997	885031B30M006	600	17	1200668998	885031B30M010	1000	18	1200668999	885031B30M020	2000	19	1200669000	885031B30M030	3000	20	1200669001	885031B30M050	5000	21	1200669002	885031B30M100	10000	22	1200669241	885031B30M0067	600	23	1200669243	885031B30M0207	2000	24	1200669371	885031B30M010H	1000	25	1200669677	885031B30M150	15000	26	1200669678	885031B30M200	20000	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>43</td><td>1200669672</td><td>885031B33M030A</td><td>3000</td></tr><tr><td>44</td><td>1200669673</td><td>885031B33M050A</td><td>5000</td></tr><tr><td>45</td><td>1200669674</td><td>885031B33M100A</td><td>10000</td></tr><tr><td>46</td><td>1200669675</td><td>885031B33M150A</td><td>15000</td></tr><tr><td>47</td><td>1200669676</td><td>885031B33M200A</td><td>20000</td></tr><tr><td>48</td><td>1200669908</td><td>885031B33M005A</td><td>500</td></tr><tr><td>49</td><td>1200669909</td><td>885031B33M300A</td><td>300000</td></tr><tr><td>50</td><td>1200669910</td><td>885031B33M400A</td><td>400000</td></tr><tr><td>51</td><td>1200669911</td><td>885031B33M500A</td><td>500000</td></tr></table>				Lp.	MOLEX PN	ENGINEERING No	L [mm]	43	1200669672	885031B33M030A	3000	44	1200669673	885031B33M050A	5000	45	1200669674	885031B33M100A	10000	46	1200669675	885031B33M150A	15000	47	1200669676	885031B33M200A	20000	48	1200669908	885031B33M005A	500	49	1200669909	885031B33M300A	300000	50	1200669910	885031B33M400A	400000	51	1200669911	885031B33M500A	500000	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>81</td><td>1200669056</td><td>884031B36M1507Y</td><td>15000</td></tr><tr><td>82</td><td>1200669057</td><td>884031B36M2007Y</td><td>20000</td></tr><tr><td>83</td><td>1200669058</td><td>884031B36M2507Y</td><td>25000</td></tr><tr><td>84</td><td>1200669059</td><td>884031B36M3007Y</td><td>30000</td></tr><tr><td>85</td><td>1200669534</td><td>884031B36M0057H</td><td>500</td></tr><tr><td>86</td><td>1200669535</td><td>884031B36M0107H</td><td>1000</td></tr><tr><td>87</td><td>1200669536</td><td>884031B36M0157H</td><td>1500</td></tr><tr><td>88</td><td>1200669537</td><td>884031B36M0207H</td><td>2000</td></tr><tr><td>89</td><td>1200669538</td><td>884031B36M0307H</td><td>3000</td></tr><tr><td>90</td><td>1200669539</td><td>884031B36M0507H</td><td>5000</td></tr><tr><td>91</td><td>1200669540</td><td>884031B36M1007H</td><td>10000</td></tr><tr><td>92</td><td>1200669564</td><td>884031B36M0067Y</td><td>600</td></tr></table>				Lp.	MOLEX PN	ENGINEERING No	L [mm]	81	1200669056	884031B36M1507Y	15000	82	1200669057	884031B36M2007Y	20000	83	1200669058	884031B36M2507Y	25000	84	1200669059	884031B36M3007Y	30000	85	1200669534	884031B36M0057H	500	86	1200669535	884031B36M0107H	1000	87	1200669536	884031B36M0157H	1500	88	1200669537	884031B36M0207H	2000	89	1200669538	884031B36M0307H	3000	90	1200669539	884031B36M0507H	5000	91	1200669540	884031B36M1007H	10000	92	1200669564	884031B36M0067Y	600	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>100</td><td>1200669272</td><td>884031B55M010Y</td><td>1000</td></tr><tr><td>101</td><td>1200669273</td><td>884031B55M020Y</td><td>2000</td></tr><tr><td>102</td><td>1200669274</td><td>884031B55M030Y</td><td>3000</td></tr><tr><td>103</td><td>1200669275</td><td>884031B55M050Y</td><td>5000</td></tr><tr><td>104</td><td>1200669276</td><td>884031B55M060Y</td><td>6000</td></tr><tr><td>105</td><td>1200669277</td><td>884031B55M100Y</td><td>10000</td></tr><tr><td>106</td><td>1200669278</td><td>884031B55M150Y</td><td>15000</td></tr><tr><td>107</td><td>1200669419</td><td>884031B55M070Y</td><td>7000</td></tr><tr><td>108</td><td>1200669420</td><td>884031B55M200Y</td><td>20000</td></tr><tr><td>109</td><td>1200669730</td><td>884031B55M005Y</td><td>500</td></tr></table>				Lp.	MOLEX PN	ENGINEERING No	L [mm]	100	1200669272	884031B55M010Y	1000	101	1200669273	884031B55M020Y	2000	102	1200669274	884031B55M030Y	3000	103	1200669275	884031B55M050Y	5000	104	1200669276	884031B55M060Y	6000	105	1200669277	884031B55M100Y	10000	106	1200669278	884031B55M150Y	15000	107	1200669419	884031B55M070Y	7000	108	1200669420	884031B55M200Y	20000	109	1200669730	884031B55M005Y	500	F
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18	1200668999	885031B30M020	2000																																																																																																																																																																																																																																																																		
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20	1200669001	885031B30M050	5000																																																																																																																																																																																																																																																																		
21	1200669002	885031B30M100	10000																																																																																																																																																																																																																																																																		
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109	1200669730	884031B55M005Y	500																																																																																																																																																																																																																																																																		
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MOLEX PN	ENGINEERING No	L [mm]	27	1200669569	884031B33M005	500	28	1200669570	884031B33M010	1000	29	1200669571	884031B33M020	2000	30	1200669572	884031B33M030	3000	31	1200669573	884031B33M050	5000	32	1200669574	884031B33M100	10000	33	1200669581	884031B33M005A	500	34	1200669582	884031B33M010A	1000	35	1200669621	884031B33M020A	2000	36	1200669622	884031B33M030A	3000	37	1200669623	884031B33M050A	5000	38	1200669624	884031B33M100A	10000	39	1200669625	884031B33M150A	15000	40	1200669626	884031B33M200A	20000	41	1200669670	885031B33M010A	1000	42	1200669671	885031B33M020A	2000	<table><tr><th>Lp.</th><th>MOLEX PN</th><th>ENGINEERING No</th><th>L [mm]</th></tr><tr><td>48</td><td>1200669060</td><td>885031B36M0057Y</td><td>500</td></tr><tr><td>49</td><td>1200669061</td><td>885031B36M0107Y</td><td>1000</td></tr><tr><td>50</td><td>1200669062</td><td>885031B36M0207Y</td><td>2000</td></tr><tr><td>51</td><td>1200669063</td><td>885031B36M0307Y</td><td>3000</td></tr><tr><td>52</td><td>1200669064</td><td>885031B36M0407Y</td><td>4000</td></tr><tr><td>53</td><td>1200669065</td><td>885031B36M0507Y</td><td>5000</td></tr><tr><td>54</td><td>1200669066</td><td>885031B36M0607Y</td><td>6000</td></tr><tr><td>55</td><td>1200669067</td><td>885031B36M0807Y</td><td>8000</td></tr><tr><td>56</td><td>1200669068</td><td>885031B36M1007Y</td><td>10000</td></tr><tr><td>57</td><td>1200669069</td><td>885031B36M1207Y</td><td>12000</td></tr><tr><td>58</td><td>1200669070</td><td>885031B36M1507Y</td><td>15000</td></tr><tr><td>59</td><td>1200669071</td><td>885031B36M1807Y</td><td>18000</td></tr><tr><td>60</td><td>1200669072</td><td>885031B36M2007Y</td><td>20000</td></tr><tr><td>61</td><td>1200669073</td><td>885031B36M2507Y</td><td>25000</td></tr><tr><td>62</td><td>1200669074</td><td>885031B36M3007Y</td><td>30000</td></tr><tr><td>63</td><td>1200669549</td><td>885031B36M0057H</td><td>500</td></tr><tr><td>64</td><td>1200669550</td><td>885031B36M0107H</td><td>1000</td></tr><tr><td>65</td><td>1200669551</td><td>885031B36M0157H</td><td>1500</td></tr><tr><td>66</td><td>1200669552</td><td>885031B36M0207H</td><td>2000</td></tr><tr><td>67</td><td>1200669553</td><td>885031B36M0307H</td><td>3000</td></tr><tr><td>68</td><td>1200669554</td><td>885031B36M0507H</td><td>5000</td></tr><tr><td>69</td><td>1200669555</td><td>885031B36M1007H</td><td>10000</td></tr><tr><td>70</td><td>1200668861</td><td>884031B36M0507Y</td><td>5000</td></tr><tr><td>71</td><td>1200668862</td><td>884031B36M1007Y</td><td>10000</td></tr><tr><td>72</td><td>1200669047</td><td>884031B36M0057Y</td><td>500</td></tr><tr><td>73</td><td>1200669048</td><td>884031B36M0107Y</td><td>1000</td></tr><tr><td>74</td><td>1200669049</td><td>884031B36M0157Y</td><td>1500</td></tr><tr><td>75</td><td>1200669050</td><td>884031B36M0207Y</td><td>2000</td></tr><tr><td>76</td><td>1200669051</td><td>884031B36M0307Y</td><td>3000</td></tr><tr><td>77</td><td>1200669052</td><td>884031B36M0407Y</td><td>4000</td></tr><tr><td>78</td><td>1200669053</td><td>884031B36M0607Y</td><td>6000</td></tr><tr><td>79</td><td>1200669054</td><td>884031B36M0807Y</td><td>8000</td></tr><tr><td>80</td><td>1200669055</td><td>884031B36M1207Y</td><td>12000</td></tr></table>				Lp.	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MOLEX PN	ENGINEERING No	L [mm]	94	1200668835	885031B42M006	600	95	1200668836	885031B42M010	1000	96	1200668837	885031B42M020	2000	97	1200668838	885031B42M030	3000	98	1200668839	885031B42M050	5000																					
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78	1200669053	884031B36M0607Y	6000																																																																																																																																																																																																																																																																		
79	1200669054	884031B36M0807Y	8000																																																																																																																																																																																																																																																																		
80	1200669055	884031B36M1207Y	12000																																																																																																																																																																																																																																																																		
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94	1200668835	885031B42M006	600																																																																																																																																																																																																																																																																		
95	1200668836	885031B42M010	1000																																																																																																																																																																																																																																																																		
96	1200668837	885031B42M020	2000																																																																																																																																																																																																																																																																		
97	1200668838	885031B42M030	3000																																																																																																																																																																																																																																																																		
98	1200668839	885031B42M050	5000																																																																																																																																																																																																																																																																		