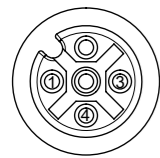
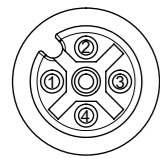


M12 FEMALE

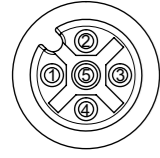
FACE VIEWS



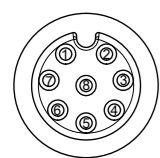
| PIN | WIRE COLOR |
|-----|------------|
| 1 | BROWN |
| 2 | - |
| 3 | BLUE |
| 4 | BLACK |



| PIN | WIRE COLOR |
|-----|------------|
| 1 | BROWN |
| 2 | WHITE |
| 3 | BLUE |
| 4 | BLACK |



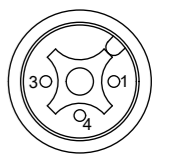
| PIN | WIRE COLOR |
|-----|-------------|
| 1 | BROWN |
| 2 | WHITE |
| 3 | BLUE |
| 4 | BLACK |
| 5 | GY or GN-YE |



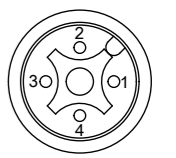
| PIN | WIRE COLOR |
|-----|------------|
| 1 | WHITE |
| 2 | BROWN |
| 3 | GREEN |
| 4 | YELLOW |
| 5 | GREY |
| 6 | PINK |
| 7 | BLUE |
| 8 | RED |

M12 MALE

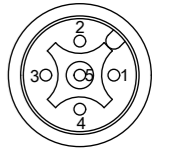
FACE VIEWS



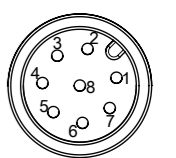
| PIN | WIRE COLOR |
|-----|------------|
| 1 | BROWN |
| 2 | - |
| 3 | BLUE |
| 4 | BLACK |



| PIN | WIRE COLOR |
|-----|------------|
| 1 | BROWN |
| 2 | WHITE |
| 3 | BLUE |
| 4 | BLACK |

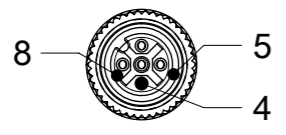


| PIN | WIRE COLOR |
|-----|-------------|
| 1 | BROWN |
| 2 | WHITE |
| 3 | BLUE |
| 4 | BLACK |
| 5 | GY or GN-YE |

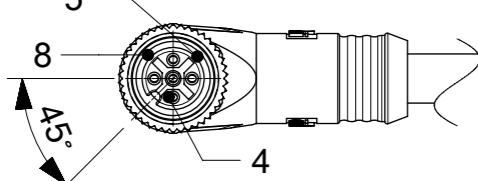


| PIN | WIRE COLOR |
|-----|------------|
| 1 | WHITE |
| 2 | BROWN |
| 3 | GREEN |
| 4 | YELLOW |
| 5 | GREY |
| 6 | PINK |
| 7 | BLUE |
| 8 | RED |

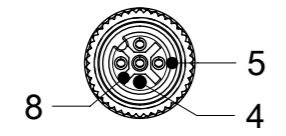
FEMALE STRAIGHT - MALE STRAIGHT
88X030BXXMXXX



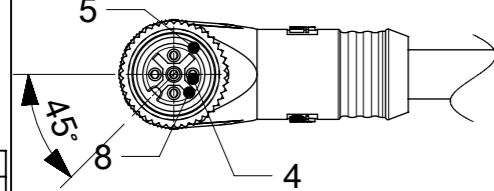
FEMALE RIGHT ANGEL - MALE STRAIGHT
88X031BXXMXXX



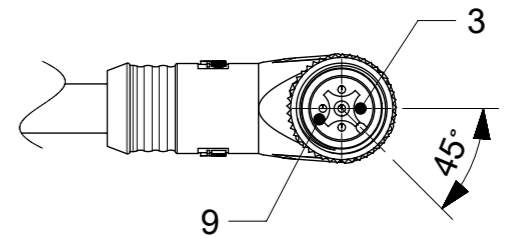
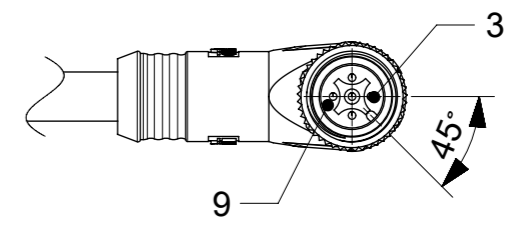
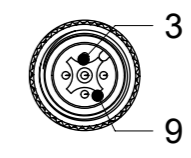
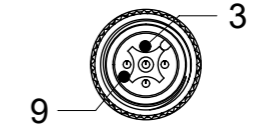
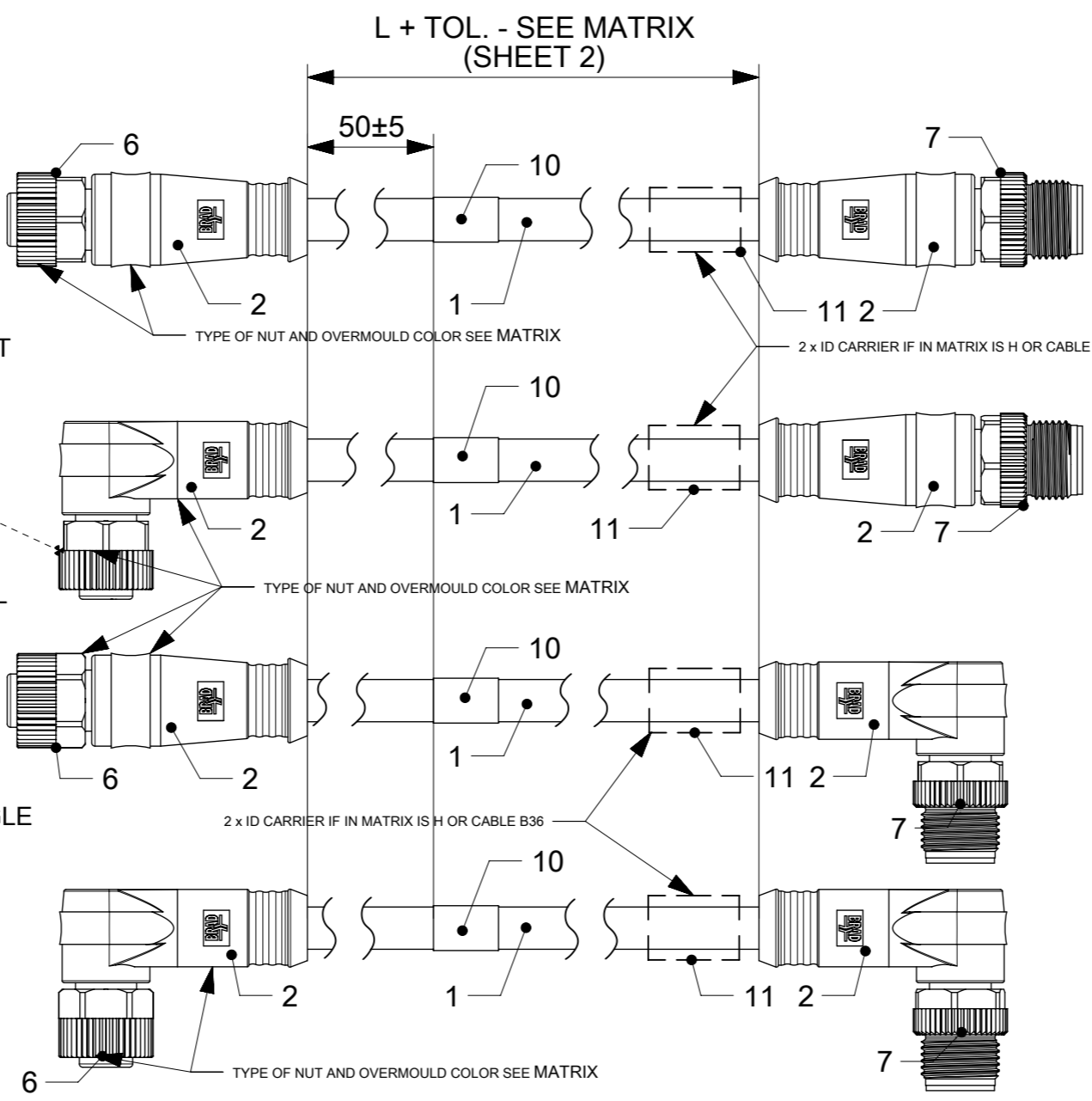
FEMALE STRAIGHT - MALE RIGHT ANGEL
88X032BXXMXXX



FEMALE RIGHT ANGLE - MALE RIGHT ANGLE
88X033BXXMXXX



VIEW FROM THE FRONT SIDE
FEMALE 5P



VIEW FROM THE FRONT SIDE
MALE 5P

NOTE:

- BRAD LOGO - ONLY IN ONE SIDE ON THE OVERMOULD.

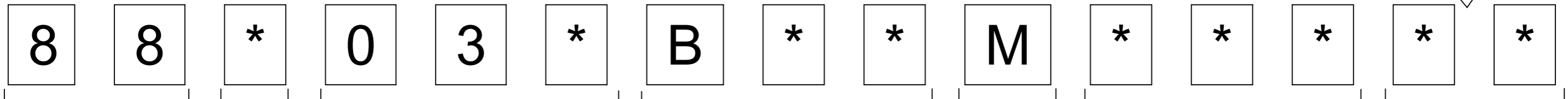
BILL OF MATERIALS

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|------|------|-------------------------|------------|-------------------------|
| 11 | X | ID CARRIER (SEE MATRIX) | PVC | - |
| 10 | 1 | STANDARD WRAP LABEL YE | VINYL | - |
| 9 | 1 | INSERT M12 MA XP BK | ELASTOLLAN | - |
| 8 | 1 | INSERT M12 FE XP BK | ELASTOLLAN | - |
| 7 | 1 | NUT M12 MA HEX | BRASS | NICKEL PLATED |
| 6 | 1 | NUT M12 FE HEX | BRASS | NICKEL PLATED |
| 5 | 1 | GASKET RD | FPM | - |
| 4 | X | CONTACT FEMALE | BRONZE | GOLD OVER NICKEL PLATED |
| 3 | X | CONTACT MALE | CuNi2Si | GOLD OVER NICKEL PLATED |
| 2 | - | MOULDING MATERIAL | TPU | - |
| 1 | - | CABLE (SEE MATRIX) | - | - |

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| | | | | | | | | | | |
|--|--------------------------|--|------|-----------------|------------------------|---|-------------------|----------|----------|--------------|
| 2016/06/23 2016/08/22 | 2016/06/23 2016/08/22 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION UNITS | SCALE | | | | | |
| | | ANGULAR TOL ± ° | | MM | 1:1 | | | | | |
| | | 4 PLACES ± | DATE | DRWN BY | DATE | | | | | |
| | | 3 PLACES ± | DATE | MMATLA | 2016/06/23 | | | | | |
| EC NO: 107719 DRWN: MMATLA CHK'D: MIWASIECZKO APPR: MIWASIECZKO | REV | 2 PLACES ± | DATE | CHK'D BY | DATE | CSE M12 XP AC FE XXX TPU MA XXX XM DE PRODUCT CUSTOMER DRAWING | | | | |
| | | 1 PLACE ± | DATE | MIWASIECZKO | 2016/08/22 | | | | | |
| | | 0 PLACES ± | DATE | MIWASIECZKO | 2016/08/22 | | | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | DRAWING SIZE | THIRD ANGLE PROJECTION | | | | | |
| A | 3 | | | A3 | | SERIES | MATERIAL NUMBER | CUSTOMER | | |
| | | | | | | 120065 | SEE MATRIX (SH 2) | | | |
| | | | | | | DOCUMENT NUMBER | | DOC TYPE | DOC PART | SHEET NUMBER |
| | | | | | | 1200659548 | | PSD | 00P | 1 OF 4 |

PART No MATRIX - NUMERICAL CODE (AVAILABLE PARTS SEE PART LIST TABLE. OTHERS PARTS AVAILABLE UPON REQUEST).



HEADER:
 030 = FEMALE STRAIGHT / MALE STRAIGHT
 031 = FEMALE RIGHT ANGEL / MALE STRAIGHT
 032 = FEMALE STRAIGHT/ MALE RIGHT ANGEL
 033 = FEMALE RIGHT ANGLE / MALE RIGHT ANGLE

| 88X030B41MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668870 | 888030B41M038 | 3800 |
| 1200668895 | 888030B41M006 | 600 |
| 1200668896 | 888030B41M010 | 1000 |
| 1200668897 | 888030B41M020 | 2000 |
| 1200668898 | 888030B41M030 | 3000 |
| 1200668899 | 888030B41M050 | 5000 |
| 1200668900 | 888030B41M100 | 10000 |
| 1200669177 | 888030B41M090 | 9000 |

| 88X030B42MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200659548 | 885030B42M150 | 15000 |
| 1200659549 | 885030B42M200 | 20000 |
| 1200668823 | 885030B42M006 | 600 |
| 1200668824 | 885030B42M010 | 1000 |
| 1200668825 | 885030B42M020 | 2000 |
| 1200668826 | 885030B42M030 | 3000 |
| 1200668827 | 885030B42M050 | 5000 |
| 1200668828 | 885030B42M100 | 10000 |

| 88X030B49MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGHT [mm] |
| 1200669017 | 888030B49M015Y | 1500 |
| 1200669112 | 888030B49M038Y | 3800 |

| 88X030B33MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200669223 | 884030B33M010 | 1000 |
| 1200669224 | 884030B33M020 | 2000 |
| 1200669225 | 884030B33M030 | 3000 |
| 1200669226 | 884030B33M050 | 5000 |
| 1200669247 | 885030B33M020 | 2000 |
| 1200669248 | 885030B33M100 | 10000 |
| 1200669249 | 885030B33M200 | 20000 |
| 1200669250 | 884030B33M005 | 500 |
| 1200669251 | 884030B33M100 | 10000 |
| 1200669252 | 884030B33M200 | 20000 |
| 1200669253 | 885030B33M030 | 3000 |
| 1200669254 | 885030B33M050 | 5000 |
| 1200669255 | 885030B33M300 | 30000 |
| 1200669256 | 884030B33M300 | 30000 |
| 1200669257 | 885030B33M005 | 500 |
| 1200669258 | 885030B33M010 | 1000 |

| TABLE OF LENGTH TOLERANCES | | |
|----------------------------|---------------------|---------------|
| OVER | UP TO AND INCLUDING | TOLERANCE |
| 0 | 1000 | +40 0 |
| 1000 | 5000 | +60 0 |
| 5000 | 10000 | +80 0 |
| 10000 | 20000 | +140 0 |
| 20000 | 30000 | +160 0 |
| 30000 | > | +1% OF LENGTH |

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| | | | | | |
|------------|------------|--|-----------------|------------------------|--|
| 2016/06/23 | 2016/08/22 | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION UNITS | SCALE | |
| | | ANGULAR TOL ± ° | MM | 1:1 | |
| 107719 | MMATLA | 4 PLACES ± | DRWN BY | DATE | |
| | | 3 PLACES ± | MMATLA | 2016/06/23 | |
| A | REV | 2 PLACES ± | CHK'D BY | DATE | |
| | | 1 PLACE ± | MIWASIECZKO | 2016/08/22 | |
| | | 0 PLACES ± | APPR BY | DATE | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MIWASIECZKO | 2016/08/22 | |
| | | | DRAWING SIZE | THIRD ANGLE PROJECTION | |
| | | | A3 | | |
| | | | | | PRODUCT CUSTOMER DRAWING |
| | | | | | SERIES: 120065 MATERIAL NUMBER: SEE MATRIX CUSTOMER: |
| | | | | | DOCUMENT NUMBER: 1200659548 DOC TYPE: PSD DOC PART: 00P SHEET NUMBER: 2 OF 4 |

| 88X030B30MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200659666 | 885030B30M005 | 500 |
| 1200659667 | 885030B30M025 | 2500 |
| 1200668817 | 884030B30M006 | 600 |
| 1200668818 | 884030B30M010 | 1000 |
| 1200668819 | 884030B30M020 | 2000 |
| 1200668820 | 884030B30M030 | 3000 |
| 1200668821 | 884030B30M050 | 5000 |
| 1200668822 | 884030B30M100 | 10000 |
| 1200668863 | 884030B30M070 | 7000 |
| 1200668889 | 883030B30M006 | 600 |
| 1200668890 | 883030B30M010 | 1000 |
| 1200668891 | 883030B30M020 | 2000 |
| 1200668892 | 883030B30M030 | 3000 |
| 1200668893 | 883030B30M050 | 5000 |
| 1200668894 | 883030B30M100 | 10000 |
| 1200668913 | 884030B30M150 | 15000 |
| 1200668914 | 884030B30M200 | 20000 |
| 1200668915 | 884030B30M250 | 25000 |
| 1200668916 | 884030B30M300 | 30000 |
| 1200668991 | 885030B30M006 | 600 |
| 1200668992 | 885030B30M010 | 1000 |
| 1200668993 | 885030B30M020 | 2000 |
| 1200668994 | 885030B30M030 | 3000 |
| 1200668995 | 885030B30M050 | 5000 |
| 1200668996 | 885030B30M100 | 10000 |
| 1200669142 | 884030B30M0105 | 1000 |
| 1200669143 | 884030B30M0505 | 5000 |
| 1200669144 | 884030B30M025 | 2500 |
| 1200669145 | 885030B30M015 | 1500 |
| 1200669157 | 884030B30M002 | 200 |
| 1200669181 | 884030B30M040 | 4000 |
| 1200669182 | 884030B30M060 | 6000 |
| 1200669242 | 885030B30M0107 | 1000 |

| 88X030B36MXXXXX | | |
|-----------------|-----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668859 | 884030B36M0507Y | 5000 |
| 1200668860 | 884030B36M1007Y | 10000 |
| 1200669019 | 884030B36M0057Y | 500 |
| 1200669020 | 884030B36M0107Y | 1000 |
| 1200669021 | 884030B36M0157Y | 1500 |
| 1200669022 | 884030B36M0207Y | 2000 |
| 1200669023 | 884030B36M0307Y | 3000 |
| 1200669024 | 884030B36M0407Y | 4000 |
| 1200669025 | 884030B36M0607Y | 6000 |
| 1200669026 | 884030B36M0807Y | 8000 |
| 1200669027 | 884030B36M1207Y | 12000 |
| 1200669028 | 884030B36M1507Y | 15000 |
| 1200669029 | 884030B36M2007Y | 20000 |
| 1200669030 | 884030B36M2507Y | 25000 |
| 1200669031 | 884030B36M3007Y | 30000 |
| 1200669032 | 885030B36M0057Y | 500 |
| 1200669033 | 885030B36M0107Y | 1000 |
| 1200669034 | 885030B36M0207Y | 2000 |
| 1200669035 | 885030B36M0307Y | 3000 |
| 1200669036 | 885030B36M0407Y | 4000 |
| 1200669037 | 885030B36M0507Y | 5000 |
| 1200669038 | 885030B36M0607Y | 6000 |
| 1200669039 | 885030B36M0807Y | 8000 |
| 1200669040 | 885030B36M1007Y | 10000 |
| 1200669041 | 885030B36M1207Y | 12000 |
| 1200669042 | 885030B36M1507Y | 15000 |
| 1200669043 | 885030B36M1807Y | 18000 |
| 1200669044 | 885030B36M2007Y | 20000 |
| 1200669045 | 885030B36M2507Y | 25000 |
| 1200669046 | 885030B36M3007Y | 30000 |
| 1200669140 | 885030B36M8507Y | 85000 |

| 88X031B30MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668829 | 884031B30M006 | 600 |
| 1200668830 | 884031B30M010 | 1000 |
| 1200668831 | 884031B30M020 | 2000 |
| 1200668832 | 884031B30M030 | 3000 |
| 1200668833 | 884031B30M050 | 5000 |
| 1200668834 | 884031B30M100 | 10000 |
| 1200668877 | 883031B30M006 | 600 |
| 1200668878 | 883031B30M010 | 1000 |
| 1200668879 | 883031B30M020 | 2000 |
| 1200668880 | 883031B30M030 | 3000 |
| 1200668881 | 883031B30M050 | 5000 |
| 1200668882 | 883031B30M100 | 10000 |
| 1200668997 | 885031B30M006 | 600 |
| 1200668998 | 885031B30M010 | 1000 |
| 1200668999 | 885031B30M020 | 2000 |
| 1200669000 | 885031B30M030 | 3000 |
| 1200669001 | 885031B30M050 | 5000 |
| 1200669002 | 885031B30M100 | 10000 |
| 1200669241 | 885031B30M0067 | 600 |
| 1200669243 | 885031B30M0207 | 2000 |


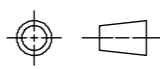
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|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668883 | 888031B41M006 | 600 |
| 1200668884 | 888031B41M010 | 1000 |
| 1200668885 | 888031B41M020 | 2000 |
| 1200668886 | 888031B41M030 | 3000 |
| 1200668887 | 888031B41M050 | 5000 |
| 1200668888 | 888031B41M100 | 10000 |

| 88X031B42MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668835 | 885031B42M006 | 600 |
| 1200668836 | 885031B42M010 | 1000 |
| 1200668837 | 885031B42M020 | 2000 |
| 1200668838 | 885031B42M030 | 3000 |
| 1200668839 | 885031B42M050 | 5000 |
| 1200668840 | 885031B42M100 | 10000 |

| 88X031B36MXXXXX | | |
|-----------------|-----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668861 | 884031B36M0507Y | 5000 |
| 1200668862 | 884031B36M1007Y | 10000 |
| 1200669047 | 884031B36M0057Y | 500 |
| 1200669048 | 884031B36M0107Y | 1000 |
| 1200669049 | 884031B36M0157Y | 1500 |
| 1200669050 | 884031B36M0207Y | 2000 |
| 1200669051 | 884031B36M0307Y | 3000 |
| 1200669052 | 884031B36M0407Y | 4000 |
| 1200669053 | 884031B36M0607Y | 6000 |
| 1200669054 | 884031B36M0807Y | 8000 |
| 1200669055 | 884031B36M1207Y | 12000 |
| 1200669056 | 884031B36M1507Y | 15000 |
| 1200669057 | 884031B36M2007Y | 20000 |
| 1200669058 | 884031B36M2507Y | 25000 |
| 1200669059 | 884031B36M3007Y | 30000 |
| 1200669060 | 885031B36M0057Y | 500 |
| 1200669061 | 885031B36M0107Y | 1000 |
| 1200669062 | 885031B36M0207Y | 2000 |
| 1200669063 | 885031B36M0307Y | 3000 |
| 1200669064 | 885031B36M0407Y | 4000 |
| 1200669065 | 885031B36M0507Y | 5000 |
| 1200669066 | 885031B36M0607Y | 6000 |
| 1200669067 | 885031B36M0807Y | 8000 |
| 1200669068 | 885031B36M1007Y | 10000 |
| 1200669069 | 885031B36M1207Y | 12000 |
| 1200669070 | 885031B36M1507Y | 15000 |
| 1200669071 | 885031B36M1807Y | 18000 |
| 1200669072 | 885031B36M2007Y | 20000 |
| 1200669073 | 885031B36M2507Y | 25000 |
| 1200669074 | 885031B36M3007Y | 30000 |

| | | | | |
|----------------|----|--------------|------------|----------|
| RELEASE STATUS | P1 | RELEASE DATE | 22.08.2016 | 11:01:26 |
|----------------|----|--------------|------------|----------|

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| | | | | | | |
|------------|--|---------------------------------------|---|--------------------------|---|--------------|
| 2016/06/23 | 2016/08/22 | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION UNITS | SCALE |  | |
| | | ANGULAR TOL ± | MM | 1:1 | | |
| 4 PLACES ± | DRWN BY | DATE | MMATLA | 2016/06/23 | | |
| 3 PLACES ± | CHK'D BY | DATE | | | | |
| 2 PLACES ± | APPR BY | DATE | MIWASIECZKO | 2016/08/22 | | |
| 1 PLACE ± | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DRAWING SIZE | THIRD ANGLE PROJECTION | PRODUCT CUSTOMER DRAWING | | |
| 0 PLACES ± | | A3 |  | SERIES | MATERIAL NUMBER | CUSTOMER |
| A | REV | 1200659548 | | DOC TYPE | DOC PART | SHEET NUMBER |
| | | 1200659548 | | PSD | 00P | 3 OF 4 |

| 88X032B30MXXXXX | | |
|-----------------|-----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668918 | 883032B30M006 | 600 |
| 1200668919 | 883032B30M010 | 1000 |
| 1200668920 | 883032B30M020 | 2000 |
| 1200668921 | 883032B30M030 | 3000 |
| 1200668922 | 883032B30M050 | 5000 |
| 1200668923 | 883032B30M100 | 10000 |
| 1200668924 | 884032B30M006 | 600 |
| 1200668925 | 884032B30M010 | 1000 |
| 1200668926 | 884032B30M020 | 2000 |
| 1200668927 | 884032B30M030 | 3000 |
| 1200668928 | 884032B30M050 | 5000 |
| 1200668929 | 884032B30M100 | 10000 |
| 1200669003 | 885032B30M006 | 600 |
| 1200669004 | 885032B30M010 | 1000 |
| 1200669005 | 885032B30M020 | 2000 |
| 1200669006 | 885032B30M030 | 3000 |
| 1200669007 | 885032B30M050 | 5000 |
| 1200669008 | 885032B30M100 | 10000 |
| 88X032B36MXXXXX | | |
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200669075 | 884032B36M0057Y | 500 |
| 1200669076 | 884032B36M0107Y | 1000 |
| 1200669077 | 884032B36M0157Y | 1500 |
| 1200669078 | 884032B36M0207Y | 2000 |
| 1200669079 | 884032B36M0307Y | 3000 |
| 1200669080 | 884032B36M0407Y | 4000 |
| 1200669081 | 884032B36M0507Y | 5000 |
| 1200669082 | 884032B36M0607Y | 6000 |
| 1200669083 | 884032B36M0807Y | 8000 |
| 1200669084 | 884032B36M1007Y | 10000 |
| 1200669085 | 884032B36M1207Y | 12000 |
| 1200669086 | 884032B36M1507Y | 15000 |
| 1200669087 | 884032B36M2007Y | 20000 |
| 1200669088 | 884032B36M2507Y | 25000 |
| 1200669089 | 884032B36M3007Y | 30000 |
| 1200669090 | 885032B36M0057Y | 500 |
| 1200669091 | 885032B36M0107Y | 1000 |
| 1200669092 | 885032B36M0207Y | 2000 |
| 1200669093 | 885032B36M0307Y | 3000 |
| 1200669094 | 885032B36M0407Y | 4000 |
| 1200669095 | 885032B36M0507Y | 5000 |
| 1200669096 | 885032B36M0607Y | 6000 |
| 1200669097 | 885032B36M0807Y | 8000 |
| 1200669098 | 885032B36M1007Y | 10000 |
| 1200669099 | 885032B36M1207Y | 12000 |
| 1200669100 | 885032B36M1507Y | 15000 |
| 1200669101 | 885032B36M1807Y | 18000 |
| 1200669102 | 885032B36M2007Y | 20000 |
| 1200669103 | 885032B36M2507Y | 25000 |
| 1200669104 | 885032B36M3007Y | 30000 |

| | | | | |
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| RELEASE STATUS | P1 | RELEASE DATE | 22.08.2016 | 11:01:26 |
|----------------|----|--------------|------------|----------|


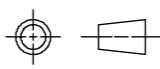
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|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
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| 1200668937 | 888032B41M010 | 1000 |
| 1200668938 | 888032B41M020 | 2000 |
| 1200668939 | 888032B41M030 | 3000 |
| 1200668940 | 888032B41M050 | 5000 |
| 1200668941 | 888032B41M100 | 10000 |

| 88X032B42MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668930 | 885032B42M006 | 600 |
| 1200668931 | 885032B42M010 | 1000 |
| 1200668932 | 885032B42M020 | 2000 |
| 1200668933 | 885032B42M030 | 3000 |
| 1200668934 | 885032B42M050 | 5000 |
| 1200668935 | 885032B42M100 | 10000 |

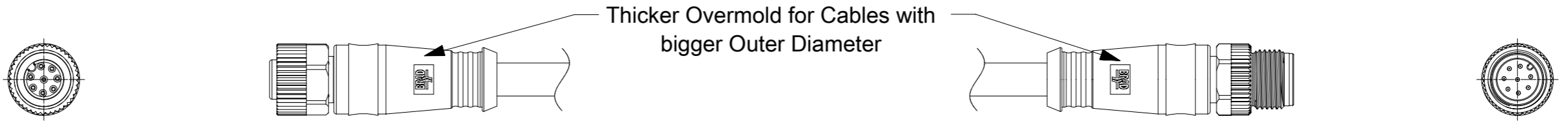
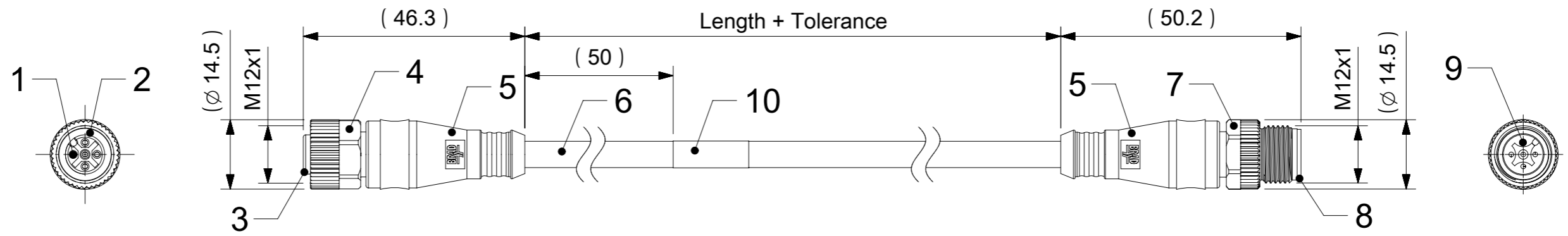
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|-----------------|----------------|-------------------|
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| 1200668943 | 883033B30M010 | 1000 |
| 1200668944 | 883033B30M020 | 2000 |
| 1200668945 | 883033B30M030 | 3000 |
| 1200668946 | 883033B30M050 | 5000 |
| 1200668947 | 883033B30M100 | 10000 |
| 1200668948 | 884033B30M006 | 600 |
| 1200668949 | 884033B30M010 | 1000 |
| 1200668950 | 884033B30M020 | 2000 |
| 1200668951 | 884033B30M030 | 3000 |
| 1200668952 | 884033B30M050 | 5000 |
| 1200668953 | 884033B30M100 | 10000 |
| 1200669009 | 885033B30M006 | 600 |
| 1200669010 | 885033B30M010 | 1000 |
| 1200669011 | 885033B30M020 | 2000 |
| 1200669012 | 885033B30M030 | 3000 |
| 1200669013 | 885033B30M050 | 5000 |
| 1200669014 | 885033B30M100 | 10000 |
| 1200669259 | 883033B30M004 | 400 |

| 88X033B41MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668960 | 888033B41M006 | 600 |
| 1200668961 | 888033B41M010 | 1000 |
| 1200668962 | 888033B41M020 | 2000 |
| 1200668963 | 888033B41M030 | 3000 |
| 1200668964 | 888033B41M050 | 5000 |
| 1200668965 | 888033B41M100 | 10000 |

| 88X033B42MXXXXX | | |
|-----------------|----------------|-------------------|
| MOLEX PN | ENGINEERING No | CABLE LENGTH [mm] |
| 1200668954 | 885033B42M006 | 600 |
| 1200668955 | 885033B42M010 | 1000 |
| 1200668956 | 885033B42M020 | 2000 |
| 1200668957 | 885033B42M030 | 3000 |
| 1200668958 | 885033B42M050 | 5000 |
| 1200668959 | 885033B42M100 | 10000 |

| | | | | | | | | | | | |
|---|--------------------------|--|--|-----------------|---|---|-----------------|---------------------------------------|----------|--------------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | |
| EC NO: 107719 DRWN: MMATLA CHK'D: APPR: MIWASIECZKO | 2016/06/23 2016/08/22 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION UNITS | SCALE |  | | | | | |
| | | ANGULAR TOL ± ° | | MM | 1:1 | | | | | | |
| | | 4 PLACES ± | | DRWN BY | | DATE | | CSE M12 XP AC FE XXX TPU MA XXX XM DE | | | |
| | | 3 PLACES ± | | MMATLA | | 2016/06/23 | | | | | |
| | | 2 PLACES ± | | CHK'D BY | | DATE | | | | | |
| | | 1 PLACE ± | | MIWASIECZKO | | 2016/08/22 | | | | | |
| | | 0 PLACES ± | | APPR BY | | DATE | | PRODUCT CUSTOMER DRAWING | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | DRAWING SIZE | THIRD ANGLE PROJECTION | | SERIES | MATERIAL NUMBER | CUSTOMER | | |
| | | A | | A3 |  | | 120065 | SEE MATRIX (SH2) | | | |
| | | | | | | | DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER | |
| | | | | | 1200659548 | PSD | 00P | 4 OF 4 | | | |

FEMALE PLUG M12 STRAIGHT 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
 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 | | B42 | | B41, B49 | |
| FEMALE | | | | | | | | | | |
| MALE | | | | | | | | | | |
| 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 | 6 | PINK |
| | | | | | | | 7 | BLUE | 7 | BLUE |
| | | | | | | 8 | RED | 8 | RED | |

CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

| ITEM | QTY. | DESCRIPTION | MATERIAL | FINISH |
|------|---------------|---------------------|-------------|----------------------------|
| 10 | 1 | LABEL OR PRINTING | VINYL / --- | --- |
| 9 | 3 / 4 / 5 / 8 | CONTACT M12 MALE | BRASS | SELECTIVE GOLD OVER NICKEL |
| 8 | 1 | INSERT MALE BLACK | TPU | --- |
| 7 | 1 | COUPLING NUT MALE | BRASS | NICKEL |
| 6 | - | CABLE | SEE SHEET 2 | --- |
| 5 | - | OVERMOULDING 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 GOLD OVER NICKEL |

| | | | | | | |
|---|---|----|--|---|--|--|
| QUALITY SYMBOLS FA = 0 FE = 0 FB = 0 FC = 0 FD = 0 FE = 0 FF = 0 FG = 0 FH = 0 FI = 0 FJ = 0 FK = 0 FL = 0 FM = 0 FN = 0 FO = 0 FP = 0 FQ = 0 FR = 0 FS = 0 FT = 0 FU = 0 FV = 0 FW = 0 FX = 0 FY = 0 FZ = 0 | 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 ° | | DRWN BY: JMARSZALEK DATE: 2016/07/22 | | | CSE M12 XP AC FE STR WSOR MA STR XM DE |
| | 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.1 0 PLACES ± 0.2 | | CHK'D BY: RSILLER DATE: 2016/08/29 | | | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | DRAWING SIZE: A3 THIRD ANGLE PROJECTION | | | SERIES: 120066 MATERIAL NUMBER: SEE SHEET 3 CUSTOMER: GENERAL MARKET |
| EC NO: 119055 DRWN: AKONDRACIUK CHK'D: MIWASIECZKO APPR: MIWASIECZKO | | A1 | | DOCUMENT NUMBER: 1200668993 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF 3 | | |

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

OPTIONS

8 8 X 0 3 0 X X X X X X X X

88=M12x1 Double ended

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

Heads style:
030=Plug Female Straight to Plug Male Straight

Cable type: See Table

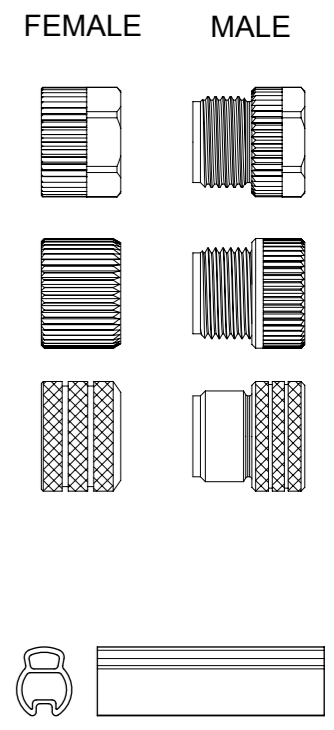
Units:
M=Meter
C=Centimeter
T=10x Meter

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 (Cables Ixx & P82 always with 2 pcs. I/D Carrier)



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 | 0.34mm ² | 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 | 0.34mm ² | TPU Gray | | | | | | | | SD-120209-001 |
| B36 | 4 / 5 | 0.34mm ² | TPU Orange | | | | | | | | SD-120209-001 |
| B41 | 8 | 0.25mm ² | TPU Black | | | | | | | | SD-120209-006 |
| B42 | 5 | 0.34mm ² | TPU Black | | | | | | | | SD-120209-001 |
| B49 | 8 | 0.25mm ² | TPU Orange | | | | | | | | SD-120209-006 |
| B55 | 3 / 4 / 5 | 0.34mm ² | 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 |

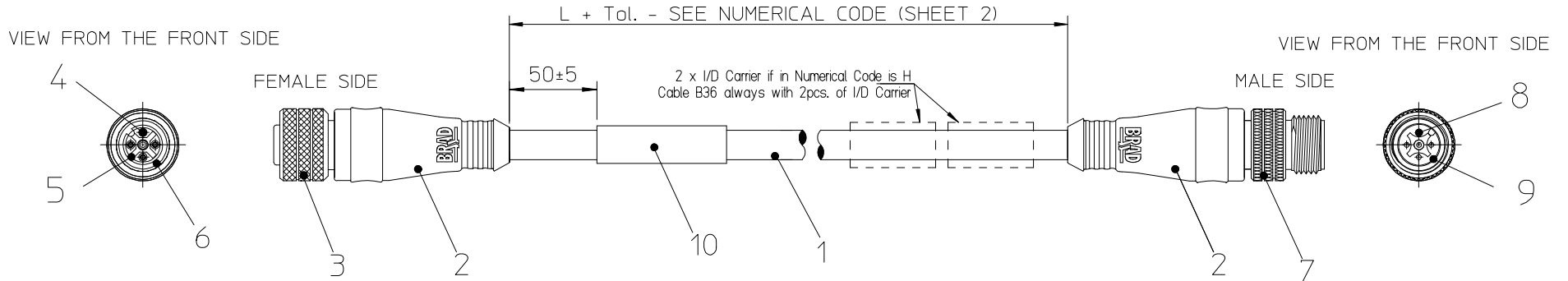
| | | | | | | | | | | |
|---|---|--|---------------------------------------|-----------------|-----------------|--------------------------|--|----------------|--|--------------|
| QUALITY SYMBOLS FA = 0 FE = 0 FB = 0 FV = 0 FC = 0 FX = 0 FS = 0 FT = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| | EC NO: 119055 DRWN: AKONDRACIUK CHK'D: MIWASIECZKO | 2017/07/06 2017/07/17 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION UNITS | SCALE | | | | |
| | | | ANGULAR TOL ± 1.0 ° | | MM | 1:1 | | | | |
| | 4 PLACES ± | | 3 PLACES ± | | DRWN BY | DATE | CSE M12 XP AC FE STR WSOR MA STR XM DE | | | |
| | 2 PLACES ± 0.05 | | 1 PLACE ± 0.1 | | JMARSZALEK | 2016/07/22 | | | | |
| 0 PLACES ± 0.2 | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | CHK'D BY | DATE | PRODUCT CUSTOMER DRAWING | | | | |
| A3 | | THIRD ANGLE PROJECTION | | RSILLER | 2016/08/29 | | | | | |
| A1 | | REV | | SERIES | | MATERIAL NUMBER | | CUSTOMER | | |
| A1 | | REV | | 120066 | | SEE SHEET 3 | | GENERAL MARKET | | |
| A1 | | REV | | DOCUMENT NUMBER | | DOC TYPE | | DOC PART | | SHEET NUMBER |
| A1 | | REV | | 1200668993 | | PSD | | 000 | | 2 OF 3 |

PART LIST

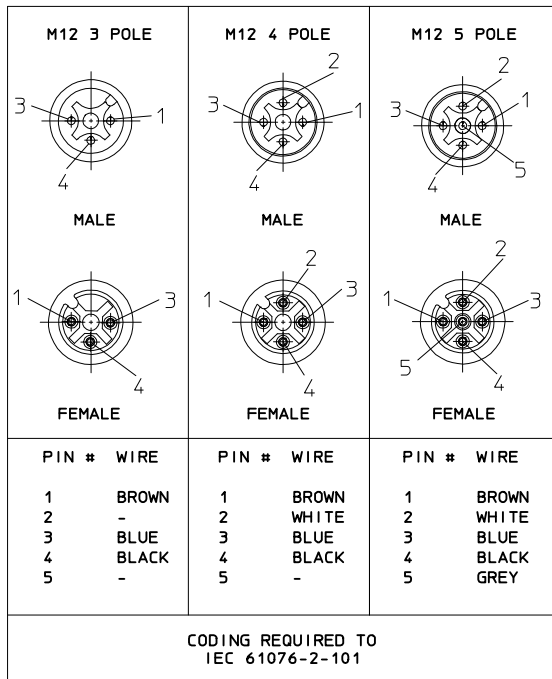
| Pos. | Part No. | Engineering No. | Cable Length | Pos. | Part No. | Engineering No. | Cable Length | Pos. | Part No. | Engineering No. | Cable Length | Pos. | Part No. | Engineering No. | Cable Length |
|------|------------|-----------------|--------------|------|------------|-----------------|--------------|------|------------|-----------------|--------------|------|------------|-----------------|--------------|
| 1 | 1200659548 | 885030B42M150 | 15m | 36 | 1200668914 | 884030B30M200 | 20m | 71 | 1200669044 | 885030B36M2007Y | 20m | 106 | 1200669267 | 884030B55M060 | 6m |
| 2 | 1200659549 | 885030B42M200 | 20m | 37 | 1200668915 | 884030B30M250 | 25m | 72 | 1200669045 | 885030B36M2507Y | 25m | 107 | 1200669268 | 884030B55M100 | 10m |
| 3 | 1200659666 | 885030B30M005 | 0.5m | 38 | 1200668916 | 884030B30M300 | 30m | 73 | 1200669046 | 885030B36M3007Y | 30m | 108 | 1200669269 | 884030B55M120 | 12m |
| 4 | 1200659667 | 885030B30M025 | 2.5m | 39 | 1200668991 | 885030B30M006 | 0.6m | 74 | 1200669112 | 888030B49M038Y | 3.8m | 109 | 1200669270 | 884030B55M150 | 15m |
| 5 | 1200665456 | 884030B30M010R | 1m | 40 | 1200668992 | 885030B30M010 | 1m | 75 | 1200669140 | 885030B36M8507Y | 85m | 110 | 1200669271 | 884030B55M200 | 20m |
| 6 | 1200665461 | 888030B41M010R | 1m | 41 | 1200668993 | 885030B30M020 | 2m | 76 | 1200669142 | 884030B30M0105 | 1m | 111 | 1200656067 | 885030B30M005H | 0.5m |
| 7 | 1200668817 | 884030B30M006 | 0.6m | 42 | 1200668994 | 885030B30M030 | 3m | 77 | 1200669143 | 884030B30M0505 | 5m | 112 | | | |
| 8 | 1200668818 | 884030B30M010 | 1m | 43 | 1200668995 | 885030B30M050 | 5m | 78 | 1200669144 | 884030B30M025 | 2.5m | 113 | | | |
| 9 | 1200668819 | 884030B30M020 | 2m | 44 | 1200668996 | 885030B30M100 | 10m | 79 | 1200669145 | 885030B30M015 | 1.5m | 114 | | | |
| 10 | 1200668820 | 884030B30M030 | 3m | 45 | 1200669017 | 888030B49M015Y | 1.5m | 80 | 1200669157 | 884030B30M002 | 0.2m | 115 | | | |
| 11 | 1200668821 | 884030B30M050 | 5m | 46 | 1200669019 | 884030B36M0057Y | 0.5m | 81 | 1200669158 | 884030B30M030R | 3m | 116 | | | |
| 12 | 1200668822 | 884030B30M100 | 10m | 47 | 1200669020 | 884030B36M0107Y | 1m | 82 | 1200669177 | 888030B41M090 | 9m | 117 | | | |
| 13 | 1200668823 | 885030B42M006 | 0.6m | 48 | 1200669021 | 884030B36M0157Y | 1.5m | 83 | 1200669181 | 884030B30M040 | 4m | 118 | | | |
| 14 | 1200668824 | 885030B42M010 | 1m | 49 | 1200669022 | 884030B36M0207Y | 2m | 84 | 1200669182 | 884030B30M060 | 6m | 119 | | | |
| 15 | 1200668825 | 885030B42M020 | 2m | 50 | 1200669023 | 884030B36M0307Y | 3m | 85 | 1200669223 | 884030B33M010 | 1m | 120 | | | |
| 16 | 1200668826 | 885030B42M030 | 3m | 51 | 1200669024 | 884030B36M0407Y | 4m | 86 | 1200669224 | 884030B33M020 | 2m | 121 | | | |
| 17 | 1200668827 | 885030B42M050 | 5m | 52 | 1200669025 | 884030B36M0607Y | 6m | 87 | 1200669225 | 884030B33M030 | 3m | 122 | | | |
| 18 | 1200668828 | 885030B42M100 | 10m | 53 | 1200669026 | 884030B36M0807Y | 8m | 88 | 1200669226 | 884030B33M050 | 5m | 123 | | | |
| 19 | 1200668859 | 884030B36M0507Y | 5m | 54 | 1200669027 | 884030B36M1207Y | 12m | 89 | 1200669242 | 885030B30M0107 | 1m | 124 | | | |
| 20 | 1200668860 | 884030B36M1007Y | 10m | 55 | 1200669028 | 884030B36M1507Y | 15m | 90 | 1200669247 | 885030B33M020 | 2m | 125 | | | |
| 21 | 1200668863 | 884030B30M070 | 7m | 56 | 1200669029 | 884030B36M2007Y | 20m | 91 | 1200669248 | 885030B33M100 | 10m | 126 | | | |
| 22 | 1200668870 | 888030B41M038 | 3.8m | 57 | 1200669030 | 884030B36M2507Y | 25m | 92 | 1200669249 | 885030B33M200 | 20m | 127 | | | |
| 23 | 1200668889 | 883030B30M006 | 0.6m | 58 | 1200669031 | 884030B36M3007Y | 30m | 93 | 1200669250 | 884030B33M005 | 0.5m | 128 | | | |
| 24 | 1200668890 | 883030B30M010 | 1m | 59 | 1200669032 | 885030B36M0057Y | 0.5m | 94 | 1200669251 | 884030B33M100 | 10m | 129 | | | |
| 25 | 1200668891 | 883030B30M020 | 2m | 60 | 1200669033 | 885030B36M0107Y | 1m | 95 | 1200669252 | 884030B33M200 | 20m | 130 | | | |
| 26 | 1200668892 | 883030B30M030 | 3m | 61 | 1200669034 | 885030B36M0207Y | 2m | 96 | 1200669253 | 885030B33M030 | 3m | 131 | | | |
| 27 | 1200668893 | 883030B30M050 | 5m | 62 | 1200669035 | 885030B36M0307Y | 3m | 97 | 1200669254 | 885030B33M050 | 5m | 132 | | | |
| 28 | 1200668894 | 883030B30M100 | 10m | 63 | 1200669036 | 885030B36M0407Y | 4m | 98 | 1200669255 | 885030B33M300 | 30m | 133 | | | |
| 29 | 1200668895 | 888030B41M006 | 0.6m | 64 | 1200669037 | 885030B36M0507Y | 5m | 99 | 1200669256 | 884030B33M300 | 30m | 134 | | | |
| 30 | 1200668896 | 888030B41M010 | 1m | 65 | 1200669038 | 885030B36M0607Y | 6m | 100 | 1200669257 | 885030B33M005 | 0.5m | 135 | | | |
| 31 | 1200668897 | 888030B41M020 | 2m | 66 | 1200669039 | 885030B36M0807Y | 8m | 101 | 1200669258 | 885030B33M010 | 1m | 136 | | | |
| 32 | 1200668898 | 888030B41M030 | 3m | 67 | 1200669040 | 885030B36M1007Y | 10m | 102 | 1200669263 | 884030B55M020 | 2m | 137 | | | |
| 33 | 1200668899 | 888030B41M050 | 5m | 68 | 1200669041 | 885030B36M1207Y | 12m | 103 | 1200669264 | 884030B55M030 | 3m | 138 | | | |
| 34 | 1200668900 | 888030B41M100 | 10m | 69 | 1200669042 | 885030B36M1507Y | 15m | 104 | 1200669265 | 884030B55M040 | 4m | 139 | | | |
| 35 | 1200668913 | 884030B30M150 | 15m | 70 | 1200669043 | 885030B36M1807Y | 18m | 105 | 1200669266 | 884030B55M050 | 5m | 140 | | | |

| | | | | | | | | | | |
|----------------------------|---|------------|--|------|-----------------|------------------------|--------------------------|-----------------|----------|--------------|
| QUALITY SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| | 2017/07/06 | 2017/07/17 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION UNITS | SCALE | | | | |
| | | | ANGULAR TOL ± 1.0 ° | | MM | 1:1 | | | | |
| | 2017/07/06 | 2017/07/17 | 4 PLACES ± | DATE | JMARSZALEK | 2016/07/22 | | | | |
| | | | 3 PLACES ± | | DATE | | | | | |
| | | | 2 PLACES ± 0.05 | DATE | | | | | | |
| | | | 1 PLACE ± 0.1 | DATE | | | | | | |
| | 2017/07/06 | 2017/07/17 | 0 PLACES ± 0.2 | DATE | RSILLER | 2016/08/29 | PRODUCT CUSTOMER DRAWING | | | |
| | | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | DRAWING SIZE | THIRD ANGLE PROJECTION | | | | |
| | A1 | | A3 | | A3 | | SERIES | MATERIAL NUMBER | CUSTOMER | |
| A1 | | A3 | | A3 | | 120066 | SEE PART LIST | GENERAL MARKET | | |
| A1 | | A3 | | A3 | | DOCUMENT NUMBER | | DOC TYPE | DOC PART | SHEET NUMBER |
| A1 | | A3 | | A3 | | 1200668993 | | PSD | 000 | 3 OF 3 |

FEMALE M12 STRAIGHT TO MALE M12 STRAIGHT CORDSET



Mating face view:



NOTES:

- TEMPERATURE RANGE SEE TABLE ON SHEET 2
- CONTACT CURRENT RATING 3-5 POLES 4A
- VOLTAGE RATING 3-4 POLES 250V
5 POLES 60V
- PROTECTION CLASS IP 67

| TOLERANCES: | |
|-------------|---------|
| ≤ 1m | +40 mm |
| 1m - 5m | +60 mm |
| 5m - 10m | +80 mm |
| > 10m | +140 mm |
| > 20m | +160 mm |
| > 30m | +1% |

Bill of Materials

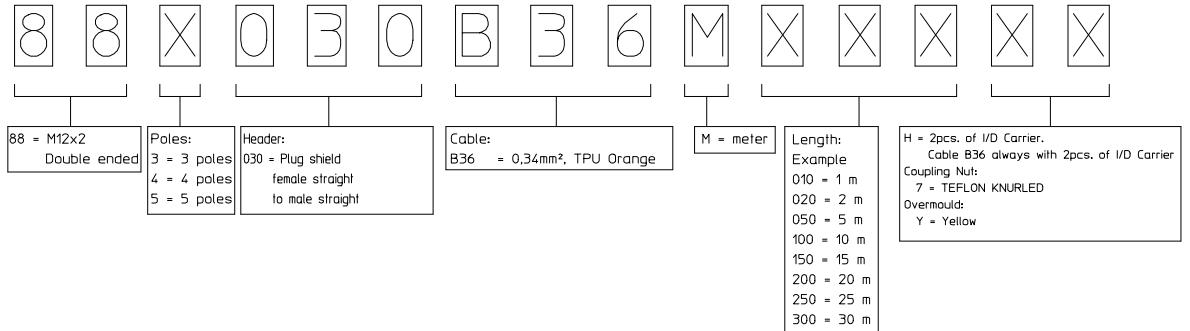
| 10 | 1 | LABEL YELLOW | VINYL | - |
|-----------|-------------|---------------------------------|---------------------|----------------------------|
| 9 | 1 | INSERT XP MALE M12 BLACK | PUR | - |
| 8 | X | CONTACT MALE | BRASS | SELECTIVE GOLD OVER NICKEL |
| 7 | 1 | COUPLING NUT KNURLED M12 MALE | BRASS | NICKEL |
| 6 | 1 | O-RING RED | FPM | - |
| 5 | 1 | INSERT XP FEMALE M12 BLACK | PUR | - |
| 4 | X | CONTACT FEMALE | BRASS | SELECTIVE GOLD OVER NICKEL |
| 3 | 1 | COUPLING NUT KNURLED M12 FEMALE | BRASS | NICKEL |
| 2 | - | OVERMOULD YELLOW | TPU | - |
| 1 | - | CABLE | SEE TABLE (SHEET 2) | - |
| ITEM QTY. | DESCRIPTION | MATERIAL | FINISH | |

| | | | | | | |
|--|------------------|---|--|---|--|---|
| ORIGINAL RELEASE EC NO: IFG2015-1610 DRWN: AKONDRACIUK 2015/03/09 CHYD: JMARSZALEK 2015/03/12 APPR: MIWASIECZKO 2015/03/18 | DESCRIPTION A | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE MM ONLY DRAWN BY: AKONDRACIUK DATE: 2015/03/09 CHECKED BY: JMARSZALEK DATE: 2015/03/12 APPROVED BY: MIWASIECZKO DATE: 2015/03/18 | SCALE --- DESIGN UNITS METRIC THIRD ANGLE PROJECTION | TITLE CSE M12 M12 XP FE STR TPU MA STR XM DE OR |
| | | MATERIAL NO. SEE MATRIX | DOCUMENT NO. SD-120066-057 | SHEET NO. 1 OF 2 | | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |
| | | SIZE A3 | | | | |

PART LIST

| MOLEX PN | ENGINEERING No. | CABLE LENGTH "L" IN M |
|------------|-----------------|-----------------------|
| 1200668859 | 884030B36M0507Y | 5M |
| 1200668860 | 884030B36M1007Y | 10M |
| 1200669019 | 884030B36M0057Y | 0.5M |
| 1200669020 | 884030B36M0107Y | 1M |
| 1200669021 | 884030B36M0157Y | 1.5M |
| 1200669022 | 884030B36M0207Y | 2M |
| 1200669023 | 884030B36M0307Y | 3M |
| 1200669024 | 884030B36M0407Y | 4M |
| 1200669025 | 884030B36M0607Y | 6M |
| 1200669026 | 884030B36M0807Y | 8M |
| 1200669027 | 884030B36M1207Y | 12M |
| 1200669028 | 884030B36M1507Y | 15M |
| 1200669029 | 884030B36M2007Y | 20M |
| 1200669030 | 884030B36M2507Y | 25M |
| 1200669031 | 884030B36M3007Y | 30M |
| 1200669032 | 885030B36M0057Y | 0.5M |
| 1200669033 | 885030B36M0107Y | 1M |
| 1200669034 | 885030B36M0207Y | 2M |
| 1200669035 | 885030B36M0307Y | 3M |
| 1200669036 | 885030B36M0407Y | 4M |
| 1200669037 | 885030B36M0507Y | 5M |
| 1200669038 | 885030B36M0607Y | 6M |
| 1200669039 | 885030B36M0807Y | 8M |
| 1200669040 | 885030B36M1007Y | 10M |
| 1200669041 | 885030B36M1207Y | 12M |
| 1200669042 | 885030B36M1507Y | 15M |
| 1200669043 | 885030B36M1807Y | 18M |
| 1200669044 | 885030B36M2007Y | 20M |
| 1200669045 | 885030B36M2507Y | 25M |
| 1200669046 | 885030B36M3007Y | 30M |
| 1200669140 | 885030B36M8507Y | 85M |

NUMERICAL CODE (Available parts see PART LIST table. If others on request.)



CABLE SPECIFICATION

| CABLE TYPE | WIRE GAUGE | CABLE JACKET | UL | CSA | Temp. range static Bending radius static | Temp. range dynamic Bending radius dynamic | Drag chain tested | Other information |
|------------|---------------------|--------------|-------------|-----|---|---|-------------------|----------------------|
| B36 | 0.34mm ² | TPU Orange | STYLE 21215 | yes | -40°C to +90°C /5x0.D. | -25°C to +80°C /7,5x0.D. | 5 mio cycles | WELD SLAG RESISTANCE |

For Raw Cable Specification see SD-120209-001

| | | | | | | | | |
|--|--------------------|-----------------|---|---|--------------------------------------|--|------------------------|--|
| ORIGINAL RELEASE EC NO: IPG2015-1610 DRWN: AKONDRACIUK 2015/03/09 CHKD: JMARSZALEK 2015/03/12 APPR: MIWASIECZKO 2015/03/18 | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE MM ONLY | SCALE --- | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | | ▽=0 ▽=0 | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± --- | DRAWN BY DATE AKONDRACIUK 2015/03/09 CHECKED BY DATE JMARSZALEK 2015/03/12 APPROVED BY DATE MIWASIECZKO 2015/03/18 | TITLE | CSE M12 M12 XP FE STR TPU MA STR XM DE OR | | |
| | | ANGULAR ± --- ° | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. | DOCUMENT NO. SD-120066-057 | | SHEET NO. 2 OF 2 | |
| | | SIZE A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |
| | | molex | | | | | | |