

F



D

C

B

A

1

101

101

101

101

101

CBA

1

10987654321

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

OPTIONS

48X030BXXXXX

48=Nano-Change
M8x1 to
Micro-Change
M12x1

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

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

Cable type: See Table

Units:
M=Meter

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

Overmold color:
Blank (Standard)=Black
Y = YELLOW

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

H= 2 pcs. of
I/D Carrier PVC Transparent
(Cables B36 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
B41	3 / 4 / 5	0.25mm²	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-120209-006
B55	3 / 4	0.34mm²	TPU Yellow								n/a
B36	3/4	0.34mm²	TPU Orange								SD-120209-001

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

FUNCTIONAL SYMBOLS

= 0

= 0

= 0

DIVISIONAL SYMBOLS

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DIMENSION UNITS

mm

SCALE

2:1

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

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120087

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 3

CURRENT REV DESC: AS PER THE PCN-513749 CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED NOTES ON PACKAGING SPEC. INSULATION RESISTANCE & MATING CYCLES. SORTED PART LIST USING CABLE TYPES ON SHEET 3,

EC NO: 789428

DRWN: AKABADI

CHK'D: RSILLER

APPR: RSILLER

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: MIWASIECZKO

2023/09/29

2024/07/02

2024/07/02

2016/09/14

2017/11/28

CSE M8 M12 XP ACBC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200878806

DOC TYPE

PSD

DOC PART

000

REVISION

B

PART LIST

MOLEX PN	ENGINEERING No	L [mm]
3P CABLE B36		
1200878959	483030B36M0037Y	300
4P CABLE B36		
1200878960	484030B36M0037Y	300
3P CABLE B41		
1200878805	483030B41M006	600
1200878938	483030B41M006H	600
1200878806	483030B41M010	1000
1200878939	483030B41M010H	1000
1200878807	483030B41M020	2000
1200878940	483030B41M020H	2000
1200878784	483030B41M030	3000
1200878929	483030B41M030H	3000
1200878785	483030B41M050	5000
1200878930	483030B41M050H	5000
1200878786	483030B41M100	10000
1200878931	483030B41M100H	10000
1200878958	483030B41M150	15000
4P CABLE B41		
1200878793	484030B41M006	600
1200878932	484030B41M006H	600
1200878794	484030B41M010	1000
1200878933	484030B41M010H	1000
1200878795	484030B41M020	2000
1200878934	484030B41M020H	2000
1200878796	484030B41M030	3000
1200878935	484030B41M030H	3000
1200878926	484030B41M040	4000
1200878797	484030B41M050	5000
1200878936	484030B41M050H	5000
1200878798	484030B41M100	10000
1200878937	484030B41M100H	10000
5P CABLE B41		
1200878966	485030B41M005	500
1200878967	485030B41M010	1000
1200878968	485030B41M015	1500
1200878969	485030B41M020	2000
1200878970	485030B41M025	2500

MOLEX PN	ENGINEERING No	L [mm]
3P CABLE B55		
1200878922	483030B55M050	5000

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FUNCTIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: AS PER THE PCN-513749 CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED NOTES ON PACKAGING SPEC , INSULATION RESISTANCE & MATING CYCLES. SORTED PART LIST USING CABLE TYPES ON SHEET 3, EC NO: 789428 DRWN: AKABADI2023/09/29 CHK'D: RSILLER2024/07/02 APPR: RSILLER2024/07/02 INITIAL REVISION: DRWN: JMARSZALEK2016/09/14 APPR: MIWASIECZKO2017/11/28					
	mm		2:1							
	GENERAL TOLERANCES (UNLESS SPECIFIED)									
	ANGULAR TOL ± 1.0 °									
	⌀ = 0	4 PLACES ±				CSE M8 M12 XP ACBC FE STR WSOR MA STR XM PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER1200878806DOC TYPEPSDDOC PART000REVISIONB MATERIAL NUMBERSEE PART LISTCUSTOMERGENERAL MARKET SHEET NUMBER3 OF 3				
	⌀ = 0	3 PLACES ±								
	⌀ = 0	2 PLACES ± 0.05								
	1 PLACE ± 0.3									
	DIVISIONAL SYMBOLS	0 PLACES ± 0.5								
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWINGA3-SIZE		SERIES120087		

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:16:47
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10

9

8

7

6

5

4

3

2

1

3 POLES

4 POLES

5 POLES

FEMALE M8 MALE M12

1

2

3

4

5

VIEW FROM THE WIRES SIDE

VIEW FROM THE WIRES SIDE

VIEW FROM THE WIRES SIDE

Pin	Wire color
1	BROWN
2	-
3	BLUE
4	BLACK

Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GRAY

Pin	Wire color
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GRAY

PART No MATRIX

4

8

*

0

3

0

B

*

*

M

*

*

*

*

*

48 = M8x1 M12x1

Poles:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES

Header:
030 = FEMALE STRAIGHT - MALE STRAIGHT

Cable:
B41 = 0.25mm², TPU BLACK
B49 = 0.25mm², TPU ORANGE

Unit:
M = meter

Length:
Example:
010 = 1 m
050 = 5 m
100 = 10 m

H = 2 pcs. of I/D Carrier
Overmould:
Blank = Black
A = Grey
G = Black
Y = Yellow

Bill of Materials

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	-	CONTACT MALE	SEE MATRIX	SEE MATRIX
10	1	INSERT M12 MALE	SEE MATRIX	SEE MATRIX
9	1	COUPLING NUT MALE M12	BRASS	NI PLATED
8	1	LABEL	-	YELLOW
7	-	ID CARRIER	SEE MATRIX	SEE MATRIX
6	-	MOLDING MATERIAL	SEE MATRIX	SEE MATRIX
5	1	O-RING	FPM	RED
4	-	CONTACT FEMALE	SEE MATRIX	SEE MATRIX
3	1	COUPLING NUT FEMALE M8	BRASS	NI PLATED
2	1	INSERT M8 FEMALE	SEE MATRIX	SEE MATRIX
1	-	CABLE	SEE MATRIX	SEE MATRIX

ADDED TABLE WITH PN
SEE SHEET 2
EC NO: IPG2016-0473
DRWN:AKONDRACIU K 2015/10/07
CHKD:MMAJGAT 2015/10/07
APPR:MIWASIECZKO 2015/11/03

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
0 PLACE ± --- ± ---
ANGULAR ± 1 °
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY DATE
AKONDRACIU K 2015/09/15
CHECKED BY DATE
MMAJGAT 2015/09/15
APPROVED BY DATE
MIWASIECZKO 2015/09/29
MATERIAL NO.
SEE TABLE 1

SCALE

DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION

TITLE
CSE M8 M12 XP AC FE MA
TPU XM DE
DOCUMENT NO.
SD-120087-058
SHEET NO.
1 OF 2

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Id_frame_A3_P_ME_T
Rev E1 2012/01/25

TABLE 1

MOLEX PN	ENGINEERING No	L [mm]
1200878784	483030B41M030	3000
1200878785	483030B41M050	5000
1200878786	483030B41M100	10000
1200878793	484030B41M006	600
1200878794	484030B41M010	1000
1200878795	484030B41M020	2000
1200878796	484030B41M030	3000
1200878797	484030B41M050	5000
1200878798	484030B41M100	10000
1200878805	483030B41M006	600
1200878806	483030B41M010	1000
1200878807	483030B41M020	2000

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

ADDED TABLE WITH PN
SEE SHEET 2
EC NO: IPG2016-0473
DRWN:AKONDRACIU K 2015/10/20
CHKD:MMAJGAT 2015/10/20
APPR:MIWASIECZKO 2015/11/03

REV
A1

DESCRIPTION

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
0 PLACE ± --- ± ---
ANGULAR ± 1 °
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY DATE
AKONDRACIU K 2015/10/20
CHECKED BY DATE
MMAJGAT 2015/10/20
APPROVED BY DATE
MIWASIECZKO 2015/11/03
MATERIAL NO.
SEE TABLE 1

SCALE

DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION
TITLE
CSE M8 M12 XP AC FE MA
TPU XM DE
DOCUMENT NO.
SD-120087-058
SHEET NO.
2 OF 2

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