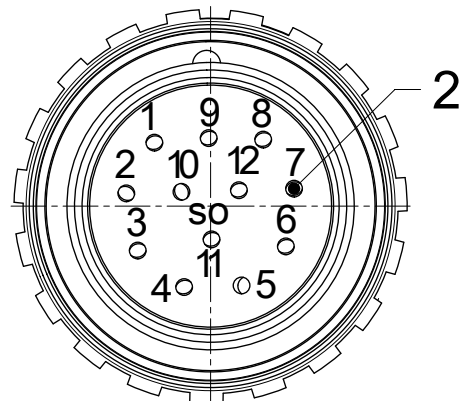


WIRING DIAGRAM

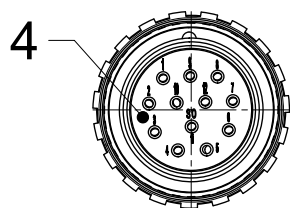
- PIN 1) White
- PIN 2) Green
- PIN 3) Yellow
- PIN 4) Grey
- PIN 5) Grey/Pink
- PIN 6) Red/Blue
- PIN 7) White/Green
- PIN 8) Brown/Green
- PIN 9) Blue
- PIN 10) Blue
- PIN 11) Brown
- PIN 12) Green/Yellow

Contacts 9 and 10 connected the same wire.

Connector Pin Assignment for M23 12 Pole Front Side View



Scale: 2:1



VIEW FROM THE FRONT SIDE

PART NO MATRIX

K 0 2 1 0 0 B 8 0 M * * *

K0 = M23x1 SINGLE ENDED

POLES: 2 = 12 POLES

CABLE TYPE: B80= WSOR CABLE

UNIT: M = METER

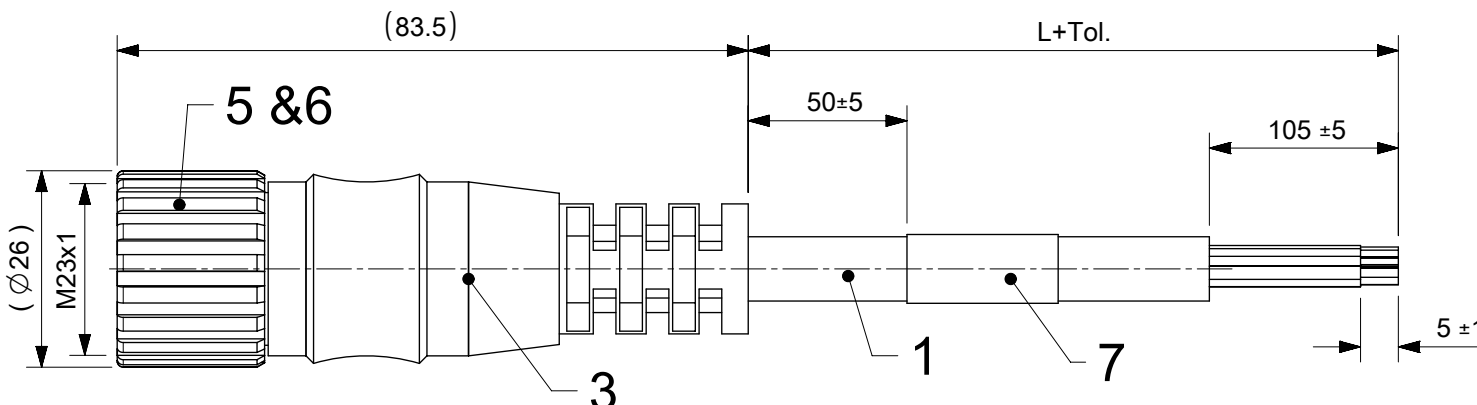
LENGTH: EXAMPLE: 010 = 1 m 050 = 5 m 100 = 10 m

HEADER: 100 = 11 WAY FEMALE STRAIGHT

CABLE SPECIFICATION:

CABLE SPECIFICATION :

JACKET:
 COMPOUND: TPU
 COLOR: BLACK
 DIAMETER: 8.50±0.25mm
 TEMPERATURE RATING: -40°C TO +90°C



BILL OF MATERIAL

ITEM NO.	QTY	DESCRIPTION	MATERIAL	FINISH
8	-	WIRE;18AWG	BLUE	PVC
7	1	LABEL	VINYL	YELLOW
6	1	RETAINING RING	SPRING SS	-
5	1	M23 FEMALE COUPLING NUT	BRASS	Ni-PLATED
4	1	M23 FEMALE INSERT 12P	TPU	BLACK
3	1	OOVERMOLD	TPU	BLACK
2	12	CONTACT 10 FE	BRONZE	Ni-PLATED
1	SEE PART LIST	Cable:3X19AWG+8X22AWG	TPU WSOR	BLACK

PART LIST

Molex P/N	Engineering P/N	Length L[mm]
1200948142	K02100B80M010	1000
1200948143	K02100B80M050	5000
1200948144	K02100B80M100	10000
1200948145	K02100B80M150	15000
1200948146	K02100B80M200	20000
1200948147	K02100B80M300	30000

NOTES :

ELECTRICAL DATA :
 VOLTAGE RATING : 30V
 AMPERAGE RATING : 1.5A
 INSULATION RESISTANCE : 10⁹Ω MIN.
 MATING CYCLES : MIN. 100

ENVIRONMENTAL :
 PROTECTION : IP67 IN MATED AND LOCKED POSITION

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

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

FUNCTIONAL SYMBOLS: $\nabla/A = 0$, $\nabla/E = 0$, $\nabla/V = 0$

DIVISIONAL SYMBOLS: 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: 120094

MATERIAL NUMBER: SEE PART LIST

CUSTOMER: GENERAL MARKET

SHEET NUMBER: 1 OF 1

EC NO: 689785
 DRWN: MDHARMANTI 2021/12/14
 CHK'D: RSILLER 2021/12/21
 APPR: RSILLER 2021/12/21

INITIAL REVISION:
 DRWN: MDHARMANTI 2021/12/14
 APPR: RSILLER 2021/12/21

CURRENT REV DESC: MIGRATED AND REVISED

molex

CSE M23 12P SC FE ST WSOR XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 1200948142

DOC TYPE: PSD

DOC PART: 000

REVISION: A

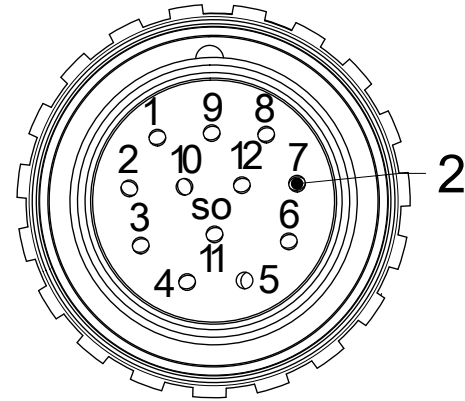
Wiring Diagram

- 1 White
- 2 Green
- 3 Yellow
- 4 Grey
- 5 Grey/Pink
- 6 Red/Blue
- 7 White/Green
- 8 Brown/Green
- 9 Blue
- 10 Blue
- 11 Brown
- 12 Green/Yellow

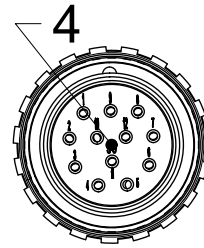
Contacts 9 and 10 connected the same wire.

Connector Pin Assignment for M23 12 Pole

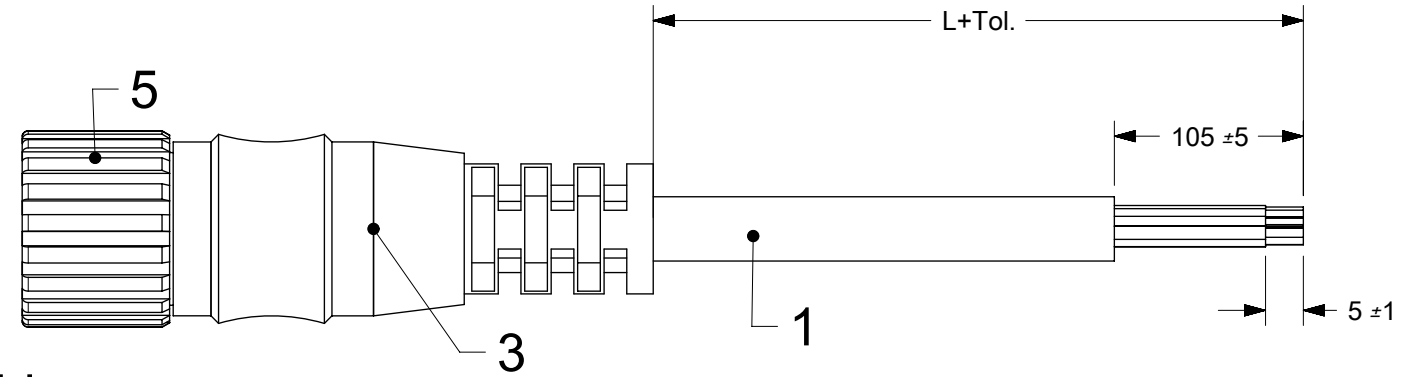
Front Side View



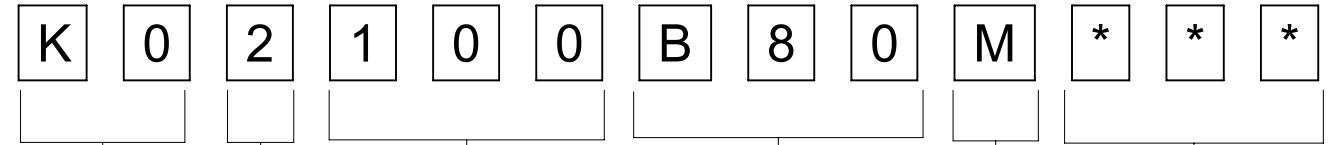
Scale: 2:1



View From The Front Side



PART NO MATRIX



K0 = M23x1 SINGLE ENDED

POLES: 2 = 12 POLES

CABLE TYPE: B80= WSOR CABLE

UNIT: M = METER

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

HEADER: 100 = 11 WAY FEMALE STRAIGHT

CABLE SPECIFICATION:

CONDUCTOR A:

MATERIAL: BARE COPPER
SECTION: 0.75mm²/19AWG
STRANDING: 42X0.15mm

INSULATION A:

COMPOUND: TPE
DIAMETER: 1.75±0.10mm

CONDUCTOR B:

MATERIAL: BARE COPPER
SECTION: 0.34mm²/22AWG
STRANDING: 42X0.10mm

INSULATION B:

COMPOUND: TPE
DIAMETER: 1.30±0.10mm

JACKET:

COMPOUND: TPU
COLOR: BLACK
DIAMETER: 8.50±0.25mm
TEMPERATURE RATING: -40°C TO +90°C
VOLTAGE RATING: 600V

BILL OF MATERIALS

QTY	DESCRIPTION	MATERIAL	FINISH
5 1	M23 Female coupling nut	Brass	Nickel Plated
4 1	M23 Female insert 12P	TPU	Black
3 1	Overmould	TPU	Black
2 12	Contacts	Bronze	Nickel Plated
1 L	Cable:3X19AWG+8X22AWG	TPU WSOR	Black

Table 1

Molex P/N	Engineering P/N	Length L[mm]	Tol.[mm]
1200948142	K02100B80M010	1000	+40
1200948143	K02100B80M050	5000	+60
1200948144	K02100B80M100	10000	+80
1200948145	K02100B80M150	15000	+140
1200948146	K02100B80M200	20000	+140
1200948147	K02100B80M300	30000	+160

QUALITY SYMBOLS FA = 0 FE = 0 FP = 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		DIMENSION UNITS MM	SCALE 1:1				
	EC NO: 107291 DRWN: MMAJGAT CHK'D: MIWASIECZKO APPR: MIWASIECZKO	2016/08/06 2016/08/08	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± °	DRWN BY MMAJGAT		DATE 2016/04/13	CSE M23 12P SC FE ST WSOR XM SE	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ±	CHK'D BY MIWASIECZKO		DATE 2016/08/02		PRODUCT CUSTOMER DRAWING
	A1	REV	DRAWING SIZE A3	THIRD ANGLE PROJECTION		SERIES 120094		
RELEASE STATUS P1 RELEASE DATE 08.08.2016 06:30:39		DOCUMENT NUMBER 1200948142		DOC TYPE PSD	DOC PART 00P	SHEET NUMBER 1 OF 1		

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