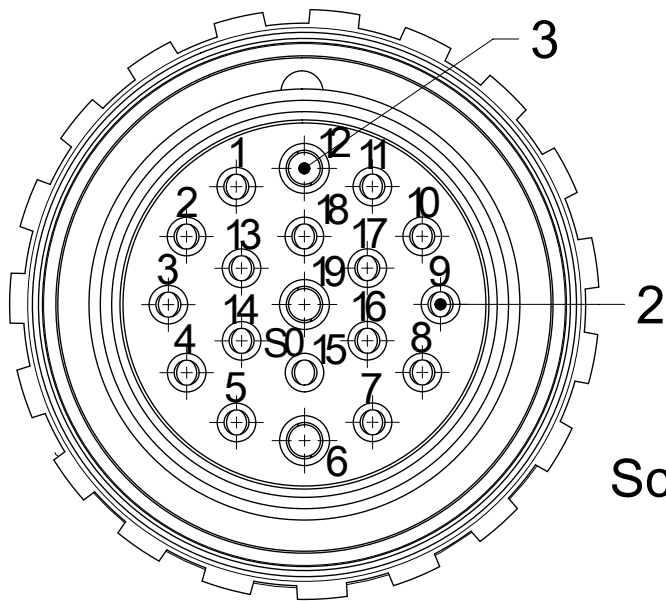


Wiring Diagram

- 1 Violet
- 2 Red
- 3 Gray
- 4 Red/Blue
- 5 Green
- 6 Blue
- 7 Gray/Pink
- 8 White/Green
- 9 White/Yellow
- 10 White/Gray
- 11 Black
- 12 Green/Yellow
- 13 Yellow/Brown
- 14 Brown/Green
- 15 White
- 16 Yellow
- 17 Pink
- 18 Gray/Brown
- 19 Brown

Connector Pin Assignment for M23 19 Pole Front Side View



Scale 3:1

ENGINEERING NO. - MATRIX

Matrix diagram showing the breakdown of the engineering number K03000B**M**.*

- K0** = M23x1 SINGLE ENDED
- 3** = 19 POLES
- 000** = FEMALE STRAIGHT
- CABLE TYPE:**
B80 = 3x19AWG+16x22AWG TPU BLACK WSOR
B20 = 3x19AWG+16x22AWG PUR BLACK
- UNIT:**
M = METER
- LENGTH:**
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

CABLE SPECIFICATION FOR B80:

CONDUCTOR A:
MATERIAL: BARE COPPER
SECTION: 0.75mm²/19AWG
DIAMETER: 1.75±0.10mm
CONDUCTOR B:
MATERIAL: BARE COPPER
SECTION: 0.34mm²/22AWG
DIAMETER: 1.30±0.10mm
JACKET:
COMPOUND: TPU
COLOR: BLACK
DIAMETER: 10.20±0.30mm

CABLE SPECIFICATION FOR B20:

CONDUCTOR A:
MATERIAL: BARE COPPER
SECTION: 0.75mm²/19AWG
DIAMETER: 1.80±0.10mm
CONDUCTOR B:
MATERIAL: BARE COPPER
SECTION: 0.34mm²/22AWG
DIAMETER: 1.40±0.10mm
JACKET:
COMPOUND: PUR
COLOR: BLACK
DIAMETER: 10.60±0.20mm

CONNECTOR SPECIFICATION

VOLTAGE RATING	IEC 63V AC/DC // UL 30V AC/DC
AMPERAGE RATING	IEC 6A // UL 4A
PROTECTION CLASS	IP67
OPERATING TEMPERATURE	-25°C to 90°C

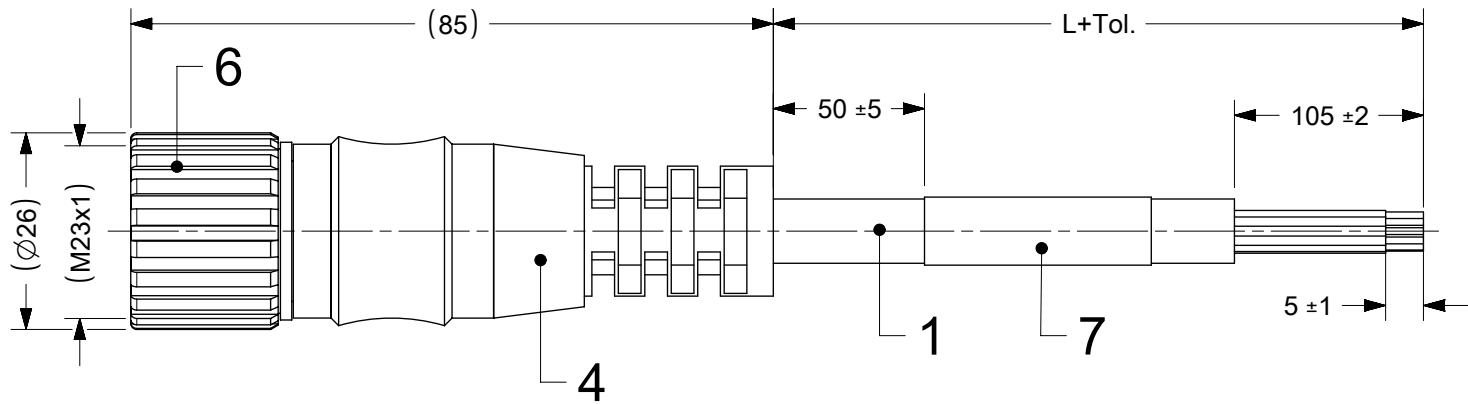
UL FILE: E152210

TABLE

Molex P/N	Engineering P/N	Length L[mm]
1200945015	K03000B20M100	10000
1200945016	K03000B20M200	20000
1200945024	K03000B20M050	5000
1200948154	K03000B80M010	1000

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



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH
7	1	Standard Wrap Label	Vinyl	Yellow
6	1	M23 Female coupling nut	Brass	Nickel Plated
5	1	M23 Female insert 19P	TPU	Black
4	1	Overmold	TPU	Black
3	3	Contacts	Brass	Nickel Plated
2	16	Contacts	Bronze	Nickel Plated
1	L	CABLE: SEE MATRIX	-	Black

Functional symbols and revision table.

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
$\nabla A = 0$	mm
$\nabla E = 0$	SCALE 1:1
$\nabla F = 0$	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

REVISIONS	DATE	BY	CHK'D	APP'R
1	2024/02/09	MBLOESER	RSILLER	RSILLER
2	2024/02/09	RSILLER	RSILLER	RSILLER
3	2020/11/23	RSCHIEBER	RSILLER	RSILLER
4	2020/11/25	RSILLER	RSILLER	RSILLER

EC NO:	776732
DRWN:	MBLOESER
CHK'D:	RSILLER
APP'R:	RSILLER
INITIAL REVISION:	
DRWN:	RSCHIEBER
APP'R:	RSILLER
THIRD ANGLE PROJECTION	
DRAWING	A3-SIZE
SERIES	120094
DOCUMENT NUMBER	1200945016
MATERIAL NUMBER	SEE TABLE
CUSTOMER	GENERAL MARKET
DOC TYPE	PSD
DOC PART	000
REVISION	A1
SHEET NUMBER	1 OF 1