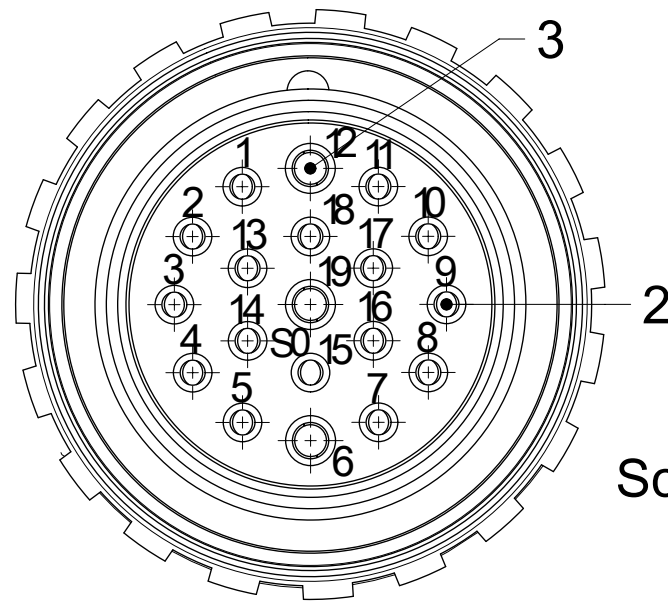


Wiring Diagram

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

K **0** **3** **0** **0** **0** **B** ***** ***** **M** ***** ***** *****

**K0 = M23x1
SINGLE ENDED**

**POLES:
3 = 19 POLES**

**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**

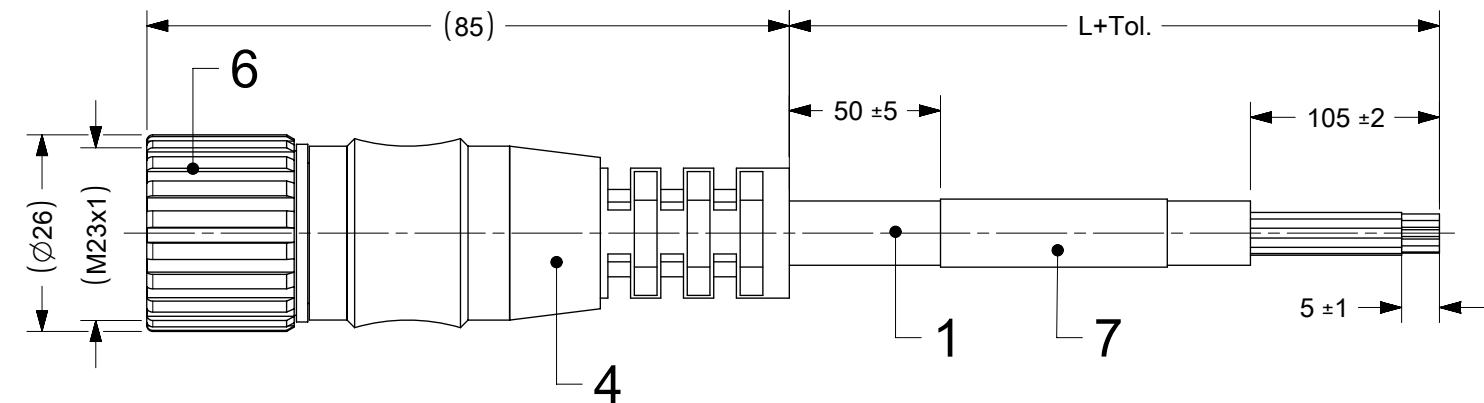
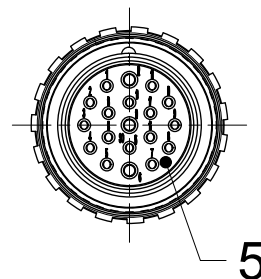
**HEADER:
000 = FEMALE STRAIGHT**

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

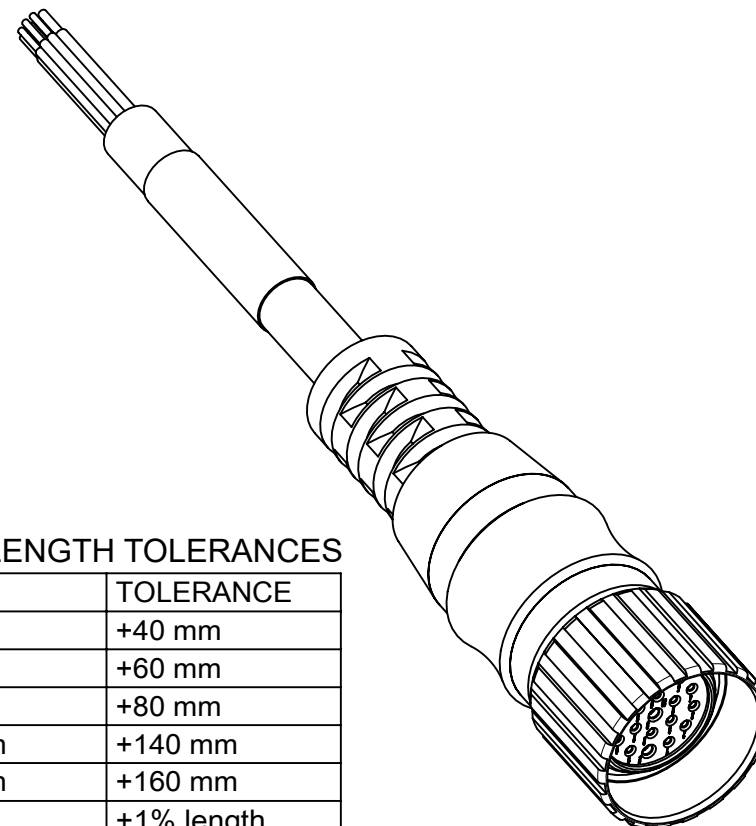
UL FILE: E152210

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

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
ITEM	QTY	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
		DIMENSION UNITS		SCALE		CURRENT REV DESC: UPDATE ELECTRICAL RATINGS EC NO: 776732 DRWN: MBLOESER2024/02/09 CHK'D: RSILLER2024/02/09 APPR: RSILLER2024/02/09 INITIAL REVISION: DRWN: RSCHIEBER2020/11/23 APPR: RSILLER2020/11/25				molex CSE M23 19P FE ST XM SE					
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
DIVISIONAL SYMBOLS		ANGULAR TOL ± 1.0 °		PRODUCT CUSTOMER DRAWING											
		4 PLACES ±													
		3 PLACES ±													
		2 PLACES ± 0.05													
		1 PLACE ± 0.3		DOCUMENT NUMBER 1200945016				DOC TYPE PSD		DOC PART 000		REVISION A1			
0 PLACES ± 0.5															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		120094		SEE TABLE		GENERAL MARKET		1 OF 1	