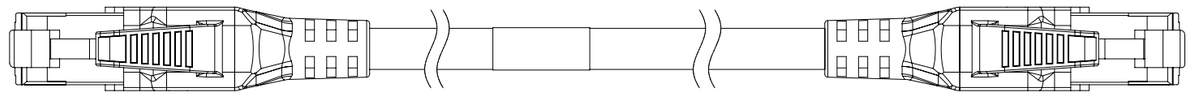
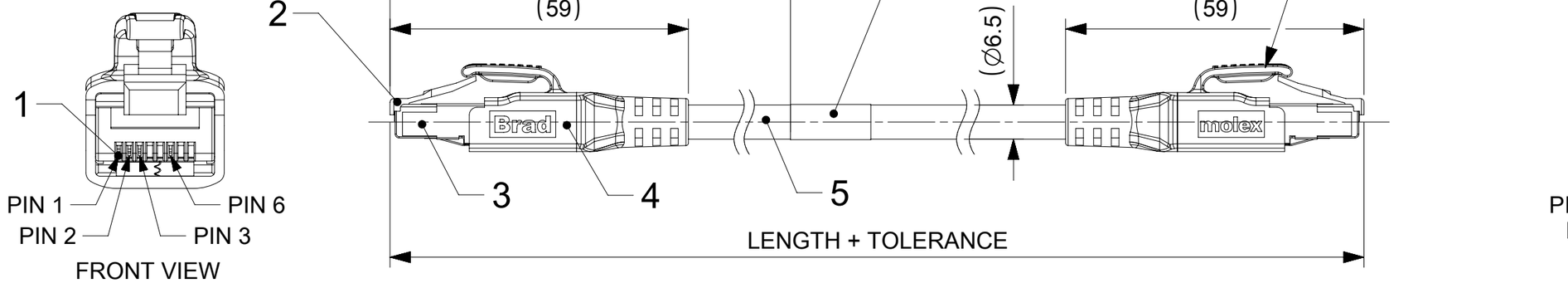
PLUG RJ45 STRAIGHT TO PLUG RJ45 STRAIGHT





SCALE 2:1

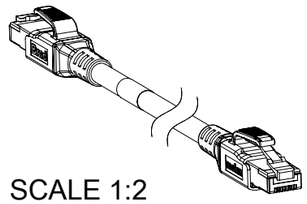
SCALE 2:1

WIRING DIAGRAM

SHIELD CONNECTED TO THE HOUSING

NOTES:

1. MATERIALS : SEE BOM TABLE
2. FINISHES: SEE BOM TABLE
3. ELECTRICAL DATA:
   MAX. VOLTAGE RATING 60 VDC
   MAX. CURRENT PER CONTACT 1.5 A
4. ENVIRONMENTAL PARAMETERS FOR CONNECTOR:
   STATIC OPERATING TEMP: -40°C to +85°C
   INDEX OF PROTECTION RJ45: IP20
5. FOR MORE INFORMATION SEE PRODUCT SPECIFIACTION 1201080202 PS P00
6. TRANSMISSION CHARACTERISTICS ACCORDING TO ISO/IEC 11801 CATEGORY 5e
   PATCH CORD PROFINET TYPE C



SCALE 1:2

BOM

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
6	1	LABEL	VINYL	---
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOULDING BLACK	TPU	---
3	2	SHIELD	BRASS	TIN
2	2	PLUG RJ45 TRANSPARENT	POLYCARBONATE	---
1	8 or 16	CONTACT RJ45 MALE	PHOSPHOR BRONZE	SELECTIVE GOLD

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FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

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

CURRENT REV DESC:

EC NO: 718371
DRWN: MBLOESER 2022/08/19
CHK'D: RSILLER 2022/08/22
APPR: RSILLER 2022/08/22

INITIAL REVISION:
DRWN: SSM 2021/08/04
APPR: RSILLER 2021/12/21

molex

CSE ETH ETH RJ45 WSOR RJ45 XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1201088967	PSD	000	A3

THIRD ANGLE PROJECTION	DRAWING	SERIES
	A3-SIZE	120108

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2022/08/22 07:20:41

FORMAT: master_sheet-A3
REVISION: J
DATE: 2020/01/16

NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request)

E	6	6	A	0	6	0	1	6	B	X	X	X	X	X	X
															OPTIONS

- E=Ethernet
- Heads: 66=Double ended RJ45
- Wiring type
- Heads style: 060=RJ45 Plug STR / RJ45 Plug STR
- Cable type: SEE TABLE
- Units: M=Meter C=Centimeter
- Length Examples: 005=0.5 units 010=1 units 150=15 units
- H= 2 pcs. of I/D Carrier

CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	MOLEX PN	CABLE O.D.	APPLICATION	CROSS SECTION	CABLE JACKET	UL	TEMP. RANGE STATIC BENDING RADIUS STATIC	CYCLES	ADITIONAL INFORMATION	RJ45 MOLEX PN
16BK	1202098649	6.5mm	-	24AWG	PUR BLACK	STYLE 21215	-40°C to +80°C / min.6xO.D.	1M, min.10xO.D. / 2M min.20xO.D. @20°C	WSOR	1301980179
16	1302110136	6.5mm	-	24AWG	TPU BASED TEAL	STYLE 21215	-40°C to +80°C / min.6xO.D.	1M, min.10xO.D. / 2M min.20xO.D. @20°C	WSOR	1301980179

PART LIST

Part No.	Engineering No.	Cable Length(m)
1201088967	E66A06016BKM005	0,5m
1201088968	E66A06016BKM010	1m
1201088969	E66A06016BKM020	2m
1201088970	E66A06016BKM030	3m
1201088971	E66A06016BKM050	5m
1201088972	E66A06016BKM100	10m
1201088532	E66A06016M005	0.5m
1201088556	E66A06016M003	0.3m
1201088557	E66A06016M006	0.6m
1201088474	E66A06016M010	1m
1201088475	E66A06016M020	2m
1201088476	E66A06016M030	3m
1201088477	E66A06016M040	4m
1201088478	E66A06016M050	5m
1201088479	E66A06016M060	6m
1201088480	E66A06016M080	8m
1201088481	E66A06016M090	9m
1201088482	E66A06016M100	10m

Part No.	Engineering No.	Cable Length
1201088483	E66A06016M120	12m
1201088484	E66A06016M150	15m
1201088485	E66A06016M200	20m
1201088486	E66A06016M250	25m
1201088487	E66A06016M300	30m
1201088488	E66A06016M350	35m
1201088489	E66A06016M400	40m
1201088490	E66A06016M450	45m
1201088491	E66A06016M500	50m
1201088492	E66A06016M550	55m
1201088493	E66A06016M600	60m
1201088494	E66A06016M650	65m
1201088495	E66A06016M700	70m
1201088496	E66A06016M750	75m
1201088497	E66A06016M800	80m
1201088528	E66A06016M850	85m
1201088529	E66A06016M900	90m

TABLE 2

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

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 1:1

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

CURRENT REV DESC:

EC NO: 718371
DRWN: MBLOESER 2022/08/19
CHK'D: RSILLER 2022/08/22
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INITIAL REVISION:
DRWN: SSM 2021/08/04
APPR: RSILLER 2021/12/21

molex

CSE ETH ETH RJ45 WSOR RJ45 XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1201088967	PSD	000	A3

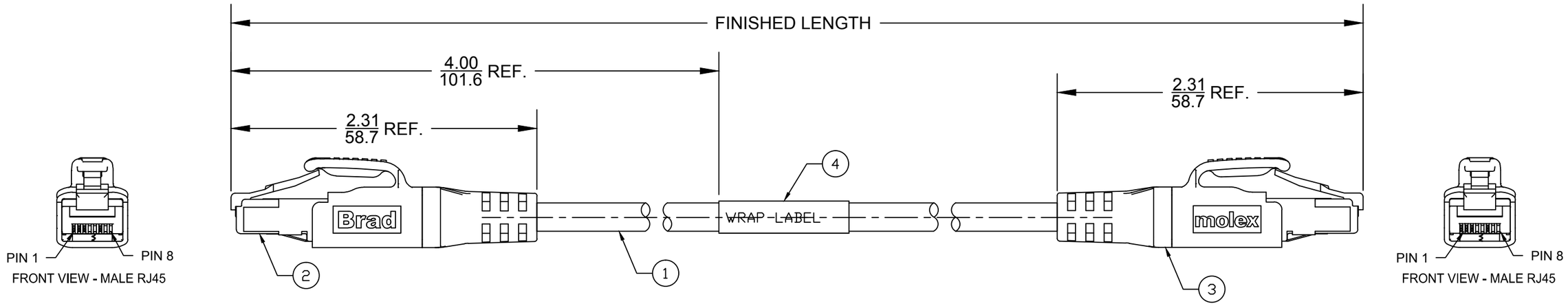
THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120108

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	2 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2022/08/22 07:20:41

FORMAT: master_Drwg-A3
REVISION: J
DATE: 2020/01/16

MATERIAL NUMBER	ENG. NUMBER	FINISHED LENGTH [M]
1201088474	E66A06016M010	1.0 M
1201088486	E66A06016M250	25.0 M



NOTES:

STANDARDS:
PROTECTION: IP20

WRAP LABEL:
MARKED WITH P/N, DATE CODE, VOLTAGE & AMPERAGE

ELECTRICAL
ACCORDING TO CAT5e
VOLTAGE RATING: 125V AC/DC
AMPERAGE: 1.5A

PART MATRIX

CABLE TYPE
24 AWG TPU-TEAL

E66A06016M005

LENGTH
M005 = 0.5M
M050 = 5M
M250 = 25M

ADDITIONAL CABLE INFORMATION

PHYSICAL CHARACTERISTICS:	
CONDUCTOR SIZE	*24AWG 2 PAIR (19/0.12mm) BARE COPPER*
INSULATION MATERIAL	*POLYOLEFIN*
SHIELD/BRAID	*TINNED COPPER 85% COVERAGE*
JACKET MATERIAL	*TPU (TEAL)*
CONDUCTOR	*ORANGE, ORANGE–WHITE & GREEN, GREEN–WHITE*
TAPE	*ALUMINUM–POLYESTER*

CABLE:	
TEMPERATURE RATING (STORAGE)	*–40 / +80°C*
TEMPERATURE RATING (OPERATION)	*–20 / +50°C*
WELD SLAG RESISTANCE	*YES, S–300 MOLEX TEST*
FREE SUBSTANCE'S	*FCKW, SILICONE, AND PB*
FIRE PERFORMANCE	*IEC60332–1, UL1581*
OIL RESISTANCE	*ISO6722, UL758/2556*

ITEM	DESCRIPTION	MATERIAL	FINISH
4	LABEL	VINYL	BLACK/YELLOW
3	RJ45 OVERMOLD	TPU	BLACK
2	RJ45 PLUG	POLYCARBONATE	CLEAR
1	CABLE	TPU	TEAL

©

CABLE LENGTH TOLERANCES
>.3M [1FT]: +19mm-0 [+.75in-0]
.3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]
.9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]
1.8 - 3.7M [6 - 12FT: +88.9mm-0 [+3.50in-0]
3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]
7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]
14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]
OVER 30M [100FT] +2% OF FINISHED LENGTH

WIRING DIAGRAM

ADD TOLERANCE BLOCK
EC NO: IPG2019-0328
DRWN: MZIELINS 2019/01/10
CH'KD: CCHRASTK 2019/01/10
APPR: BWOODMAN 2015/06/03
DESCRIPTION
C
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	±---	±---
3 PLACES	±---	±---
2 PLACES	±---	±---
1 PLACE	±---	±---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: NTS
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: MZIELINS DATE: 2015/05/05
CHECKED BY: BARDEN DATE: 2015/06/04
APPROVED BY: BWOODMAN DATE: 2015/06/03
MATERIAL NO.: SEE PART MATRIX

TITLE
ETHERNET
MALE RJ45/RJ45
#24-2TP TEAL PUR CAT5E
MOLEX INCORPORATED

DOCUMENT NO.: SD-120108-081
SHEET NO.: 1 OF 1
SIZE: B

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