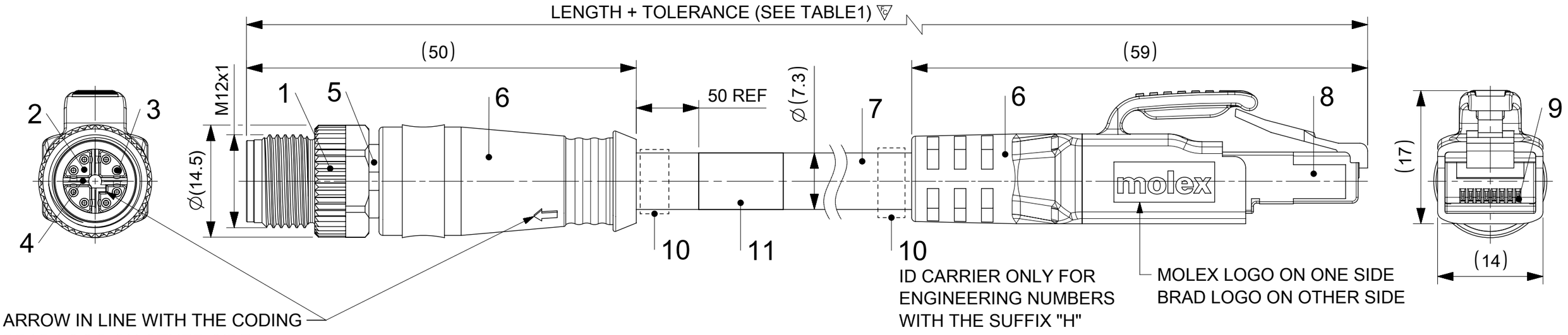
PART No. MATRIX

E	2	6	E	0	6	0	2	1	M	X	X	X	X

- E=ETHERNET/ Ethernet
- HEADS: 2 = M12 x Coding; 6 = RJ45
- WIRING TYPE: E=8 Pole (STRAIGHT WIRED)
- HEADS STYLE: 060 = MALE STR / MALE STR
- CABLE TYPE : CABLE 21
- UNITS: M= METER; T= 10xMETER
- LENGTH EXAMPLES: 005=0.5 m; 010=1 m; 150=15 m; T100=100 m
- H= 2 PCS. OF I/D Carrier

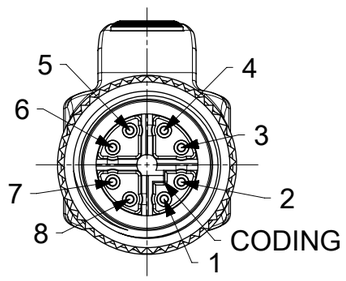


ARROW IN LINE WITH THE CODING
BRAD LOGO ON OTHER SIDE

10 ID CARRIER ONLY FOR ENGINEERING NUMBERS WITH THE SUFFIX "H"

MOLEX LOGO ON ONE SIDE
BRAD LOGO ON OTHER SIDE

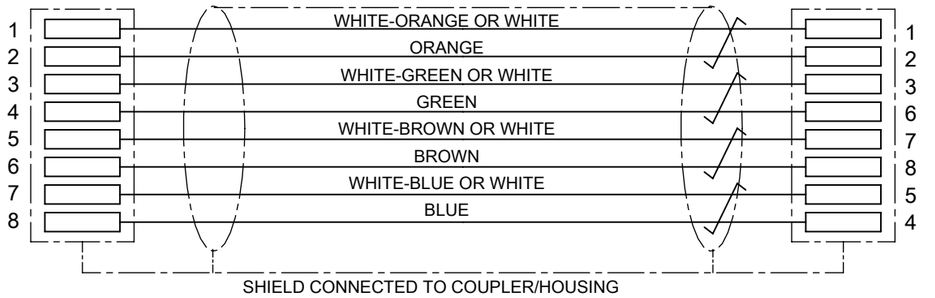
M12 X-CODE MALE FRONT VIEW



M12 X-CODE MALE

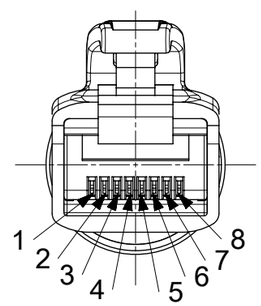
WIRING DIAGRAM

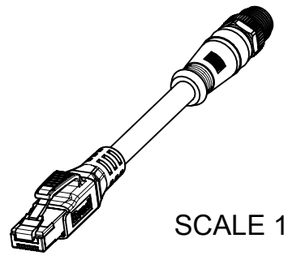
RJ45 PLUG



SHIELD CONNECTED TO COUPLER/HOUSING

RJ45 PLUG FRONT VIEW





SCALE 1:2

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR
1	1	COUPLING NUT	BRASS	Ni PLATED
2	1	INSERT	PA	BLACK
3	8	CONTACT M12 XC MALE	BRASS	Au PLATED
4	1	SHIELDING CROSS	Zn DIE-CAST	-
5	1	SHIELDING SHELL	BRASS	Ni PLATED
6	-	OVERMOULD	TPU	BLACK
7	1	CABLE 4X(2X AWG26/7) CAT 7	TPE	GREEN TEAL SIMILAR RAL6026
8	1	PLUG RJ45	-	-
9	8	CONTACT RJ45	PHOSPHOR BRONZE	SELECTIVE Au PLATED
10	SEE PN MATRIX	ID CARRIER	PVC	TRANSPARENT
11	1	LABEL 2.0X1.75	VINYL	YELLOW

DOCUMENT STATUS: P1 | RELEASE DATE: 2024/03/21 10:35:14

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

FUNCTIONAL SYMBOLS: FA = 0; FC = 1; FP = 0

DIVISIONAL SYMBOLS

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

CURRENT REV DESC: CABLE COLOR UPDATED

EC NO: 780754
DRWN: RSCHIEBER 2024/03/20
CHK'D: RSILLER 2024/03/21
APPR: RSILLER 2024/03/21

INITIAL REVISION:
DRWN: RSCHIEBER 2019/05/14
APPR: RSILLER 2021/03/16

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120341

molex

CSE M12 CAT6A RJ45 8P MA STR TPE XM SHLD

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1203410874	PSD	000	A6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1	GENERAL MARKET	1 OF 2

FORMAT: matrix_SD_rev3.A3
REVISION: J
DATE: 2020/01/16

TABLE 1

MOLEX P/N	ENGINEERING NO.	DESCRIPTION	LENGTH
1203410874	E26E06021M005	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	500
1203410875	E26E06021M010	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	1000
1203410876	E26E06021M020	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	2000
1203410877	E26E06021M030	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	3000
1203410878	E26E06021M040	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	4000
1203410879	E26E06021M050	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	5000
1203410880	E26E06021M060	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	6000
1203410897	E26E06021M070	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	7000
1203410881	E26E06021M080	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	8000
1203410898	E26E06021M090	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	9000
1203410882	E26E06021M100	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	10000
1203410883	E26E06021M150	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	15000
1203410884	E26E06021M200	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026	20000
WITH ID CARRIER			
1203411039	E26E06021M010H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	1000
1203411040	E26E06021M020H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	2000
1203411041	E26E06021M030H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	3000
1203411042	E26E06021M040H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	4000
1203411043	E26E06021M050H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	5000
1203411095	E26E06021M060H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	6000
1203411097	E26E06021M080H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	8000
1203411096	E26E06021M070H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	7000
1203411004	E26E06021M100H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	10000
1203411098	E26E06021M120H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	12000
1203411005	E26E06021M150H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	15000
1203411044	E26E06021M200H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	20000
1203411099	E26E06021M250H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	25000
1203411045	E26E06021M300H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	30000
1203411046	E26E06021M350H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	35000
1203411047	E26E06021M400H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	40000
1203410989	E26E06021M450H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	45000
1203411048	E26E06021M500H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	50000
1203411049	E26E06021M550H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	55000
1203410990	E26E06021M600H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	60000
1203410991	E26E06021M650H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	65000
1203410992	E26E06021M700H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	70000
1203411050	E26E06021M750H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	75000
1203410993	E26E06021M800H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	80000
1203410994	E26E06021M850H	M12 CAT6A M/RJ45 ST/ST TPE GREEN TEAL SIMILAR RAL6026 ID	85000

NOTES:
VOLTAGE RATING: 30 V A.C. OR 42 V D.C.
CURRENT RATING: 0.5 A
TEMPERATURE RATING:
STATIC: -40 °C TO 80 °C
DYNAMIC: -25 °C TO 80 °C
IP RATING:
M12 SIDE IP 67 (IN MATED AND LOCKED CONDITION)
RJ45 SIDE IP 20
TRANSMISSION CHARACTERISTICS ACCORDING TO ISO/IEC 11801 CLASS E_A CHANNEL,
WITH INSERTION LOSS BEING IGNORED FOR CABLE LENGTHS ⩤1 m OR ⩥65 m
POWER TRANSMISSION TEST ACCORDING IEEE802.3bt UP TO 65m LENGTH
PACKAGING: CORDSETS ARE PACKED IN A POLYBAG

CABLE LENGTH TOLERANCES

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

DOCUMENT STATUS	P1	RELEASE DATE	2024/03/21 10:35:14

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

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: CABLE COLOR UPDATED

EC NO: 780754
DRWN: RSCHIEBER 2024/03/20
CHK'D: RSILLER 2024/03/21
APPR: RSILLER 2024/03/21

INITIAL REVISION:
DRWN: RSCHIEBER 2019/05/14
APPR: RSILLER 2021/03/16

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120341

molex

CSE M12 CAT6A RJ45 8P MA STR TPE XM SHLD

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1203410874	PSD	000	A6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1	GENERAL MARKET	2 OF 2

FORMAT: molex_B_size_A3
REVISION: J
DATE: 2020/01/14