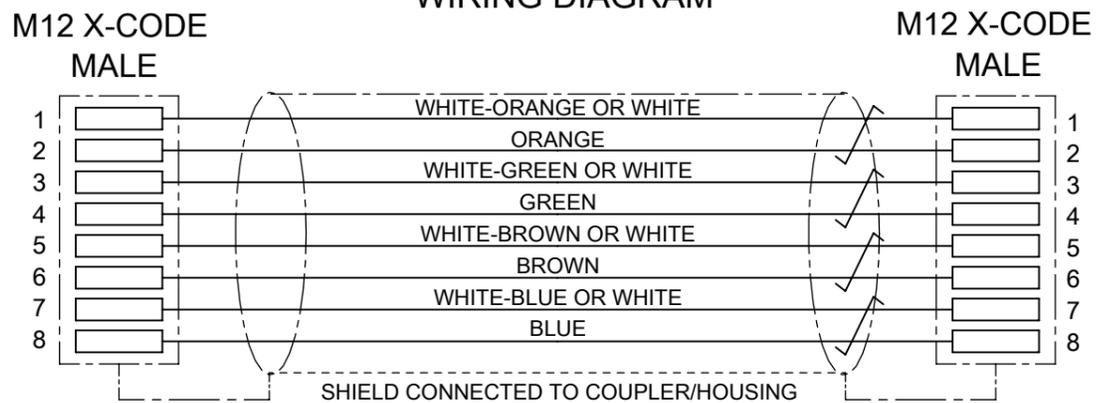
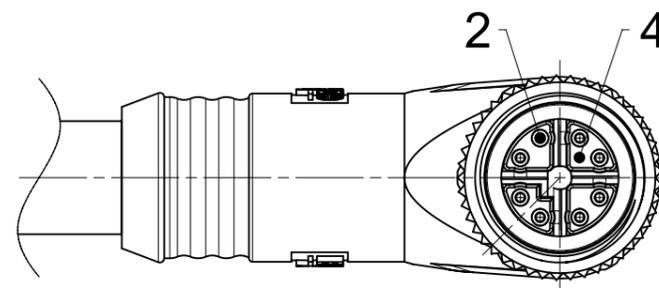
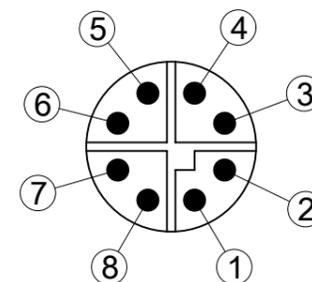


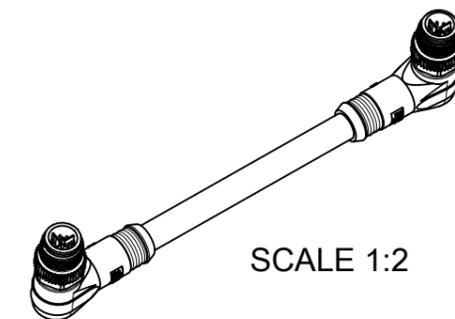
WIRING DIAGRAM



M12 8P XC MALE FRONT VIEW ACCORDING IEC 61076-2-109



VIEW FROM THE FRONT SIDE



SCALE 1:2

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR
1	1	CABLE	SEE CABLE INFORMATION AND PART LIST	GREEN
2	16	CONTACT 6 MALE	BRASS	Au OVER Ni
3	-	MOLDING MATERIAL	TPU	BLACK
4	2	INSERT M12 CAT6A MALE 8P	PA6	BLACK
5	2	SHELL M12 CAT6A	ZINC DIE-CAST	Ni PLATED
6	2	NUT M12 MALE	BRASS	Ni PLATED
7	2	M12-CLOSURE CAP-90 SHIELDED	BRASS	Ni PLATED
8	1	LABEL 2.0X1.75	VINYL	YELLOW

DOCUMENT STATUS: P1 | RELEASE DATE: 2025/03/20 | 07:08:03

FUNCTIONAL SYMBOLS $\nabla/\bar{A}$ = 0 $\nabla/E$ = 2 $\nabla/\bar{V}$ = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC: FIRST RELEASE					
	DIMENSION UNITS: mm	SCALE: 2:1	GENERAL TOLERANCES (UNLESS SPECIFIED)				
	ANGULAR TOL: ± 1.0°	4 PLACES ±	EC NO: 816172	DRWN: RSCHIEBER	2025/03/18	PRODUCT CUSTOMER DRAWING	
	3 PLACES ±	2 PLACES ± 0.05	CHK'D: RSILLER	APPR: RSILLER	2025/03/20	DOCUMENT NUMBER: 1203411200	
1 PLACE ± 0.3	0 PLACES ± 0.5	INITIAL REVISION:	DRWN: RSCHIEBER	2025/03/11	DOC TYPE: PSD	DOC PART: 000	REVISION: A
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SERIES: 120341	MATERIAL NUMBER: SEE PART LIST	CUSTOMER: GENERAL MARKET	SHEET NUMBER: 1 OF 2	

PART LIST

MOLEX PN	ENGINEERING NO.	DESCRIPTION	LENGTH [mm] + TOL.
CABLE 20			
1203411163	E22E06320M010	CSE M12 CAT6A 8P XC MA RA PUR MA RA 1M	1000
1203411164	E22E06320M020	CSE M12 CAT6A 8P XC MA RA PUR MA RA 2M	2000
1203411165	E22E06320M030	CSE M12 CAT6A 8P XC MA RA PUR MA RA 3M	3000
1203411166	E22E06320M040	CSE M12 CAT6A 8P XC MA RA PUR MA RA 4M	4000
1203411167	E22E06320M050	CSE M12 CAT6A 8P XC MA RA PUR MA RA 5M	5000
1203411168	E22E06320M060	CSE M12 CAT6A 8P XC MA RA PUR MA RA 6M	6000
1203411169	E22E06320M080	CSE M12 CAT6A 8P XC MA RA PUR MA RA 8M	8000
1203411170	E22E06320M100	CSE M12 CAT6A 8P XC MA RA PUR MA RA 10M	10000
1203411171	E22E06320M120	CSE M12 CAT6A 8P XC MA RA PUR MA RA 12M	12000
1203411172	E22E06320M150	CSE M12 CAT6A 8P XC MA RA PUR MA RA 15M	15000
1203411173	E22E06320M200	CSE M12 CAT6A 8P XC MA RA PUR MA RA 20M	20000
1203411174	E22E06320M250	CSE M12 CAT6A 8P XC MA RA PUR MA RA 25M	25000
1203411175	E22E06320M300	CSE M12 CAT6A 8P XC MA RA PUR MA RA 30M	30000
1203411176	E22E06320M350	CSE M12 CAT6A 8P XC MA RA PUR MA RA 35M	35000
1203411177	E22E06320M400	CSE M12 CAT6A 8P XC MA RA PUR MA RA 40M	40000
1203411178	E22E06320M450	CSE M12 CAT6A 8P XC MA RA PUR MA RA 45M	45000
1203411179	E22E06320M500	CSE M12 CAT6A 8P XC MA RA PUR MA RA 50M	50000

PART LIST

MOLEX PN	ENGINEERING NO.	DESCRIPTION	LENGTH [mm] + TOL.
CABLE 21			
1203411146	E22E06321M010	CSE M12 CAT6A 8P XC MA RA TPE MA RA 1M	1000
1203411147	E22E06321M020	CSE M12 CAT6A 8P XC MA RA TPE MA RA 2M	2000
1203411148	E22E06321M030	CSE M12 CAT6A 8P XC MA RA TPE MA RA 3M	3000
1203411149	E22E06321M040	CSE M12 CAT6A 8P XC MA RA TPE MA RA 4M	4000
1203411150	E22E06321M050	CSE M12 CAT6A 8P XC MA RA TPE MA RA 5M	5000
1203411151	E22E06321M060	CSE M12 CAT6A 8P XC MA RA TPE MA RA 6M	6000
1203411152	E22E06321M080	CSE M12 CAT6A 8P XC MA RA TPE MA RA 8M	8000
1203411153	E22E06321M100	CSE M12 CAT6A 8P XC MA RA TPE MA RA 10M	10000
1203411154	E22E06321M120	CSE M12 CAT6A 8P XC MA RA TPE MA RA 12M	12000
1203411155	E22E06321M150	CSE M12 CAT6A 8P XC MA RA TPE MA RA 15M	15000
1203411156	E22E06321M200	CSE M12 CAT6A 8P XC MA RA TPE MA RA 20M	20000
1203411157	E22E06321M250	CSE M12 CAT6A 8P XC MA RA TPE MA RA 25M	25000
1203411158	E22E06321M300	CSE M12 CAT6A 8P XC MA RA TPE MA RA 30M	30000
1203411159	E22E06321M350	CSE M12 CAT6A 8P XC MA RA TPE MA RA 35M	35000
1203411160	E22E06321M400	CSE M12 CAT6A 8P XC MA RA TPE MA RA 40M	40000
1203411161	E22E06321M450	CSE M12 CAT6A 8P XC MA RA TPE MA RA 45M	45000
1203411162	E22E06321M500	CSE M12 CAT6A 8P XC MA RA TPE MA RA 50M	50000

CABLE INFORMATION (FOR MORE INFORMATION SEE CABLE DATA SHEET)

MOLEX P/N	CABLE TYPE	SECTION	CABLE JACKET MATERIAL	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	CABLE DIA	CABLE COLOR	SHIELD
1582608518	20	4x(2xAWG26/7)	PUR	-40°C to +80°C	-25°C to +80°C	6.9 ±0.2 mm	GREEN	YES
1582608524	21	4x(2xAWG26/7)	TPE	-40°C to +80°C	-10°C to +80°C	7.2 ±0.2 mm	GREEN	YES

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

NOTES:

VOLTAGE RATING: 48 V  
 CURRENT RATING: 0.5 A  
 TEMPERATURE RATING:  
 STATIC: SEE CABLE INFORMATION  
 DYNAMIC: SEE CABLE INFORMATION  
 IP RATING: IP 67 (IN MATED AND LOCKED CONDITION)  
 TRANSMISSION CHARACTERISTICS ACCORDING TO ISO/IEC 11801 CLASS EA 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

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	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0°	4 PLACES ±	EC NO: 816172	2025/03/18	<b>molex</b>
DIVISIONAL SYMBOLS 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5	3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5	DRWN: RSCHIEBER CHK'D: RSILLER APPR: RSILLER	2025/03/20	2025/03/20	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 120341	DOCUMENT NUMBER 1203411200
			MATERIAL NUMBER SEE PART LIST	CUSTOMER GENERAL MARKET	DOC TYPE PSD
					DOC PART 000
					REVISION A
					SHEET NUMBER 2 OF 2