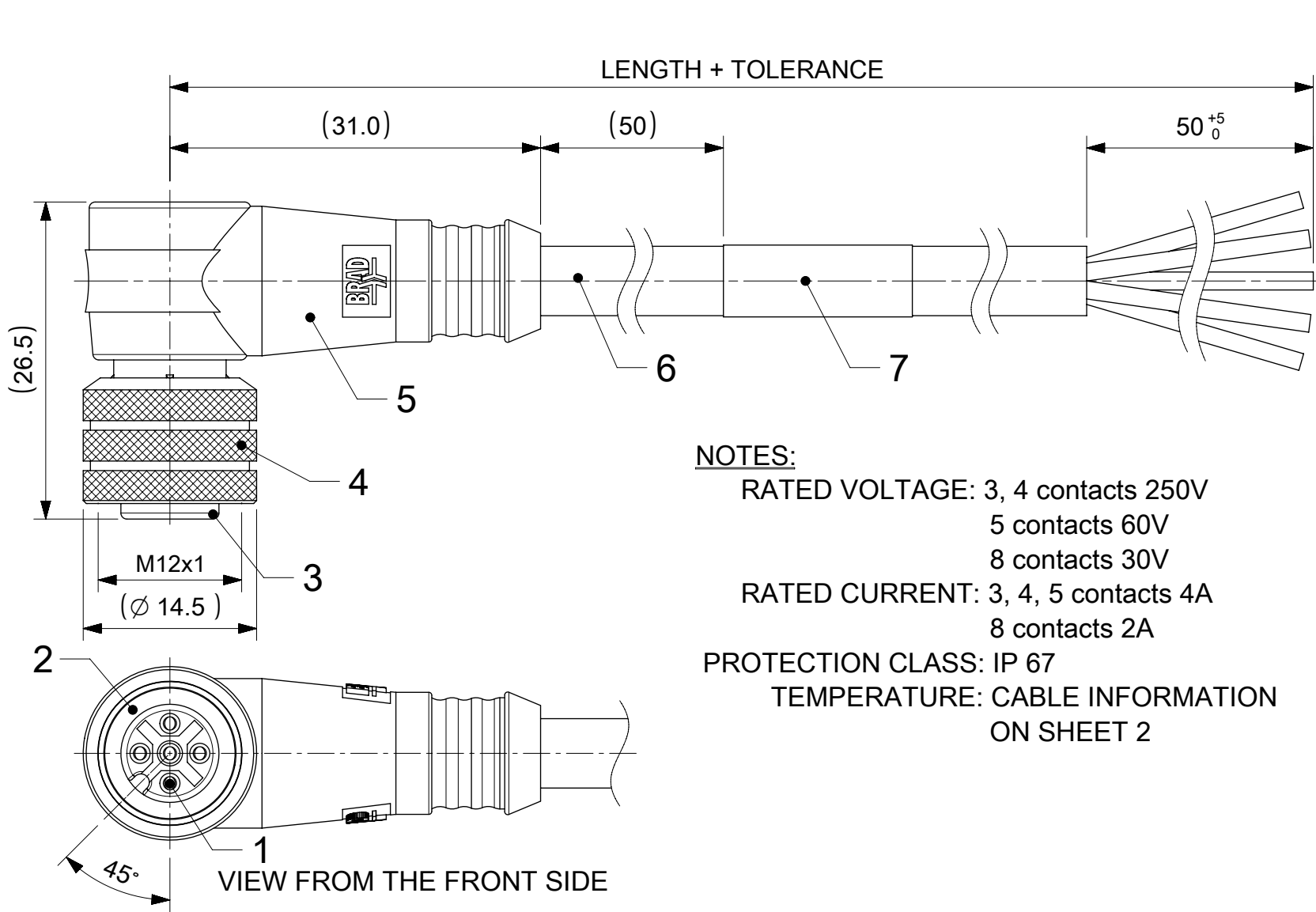
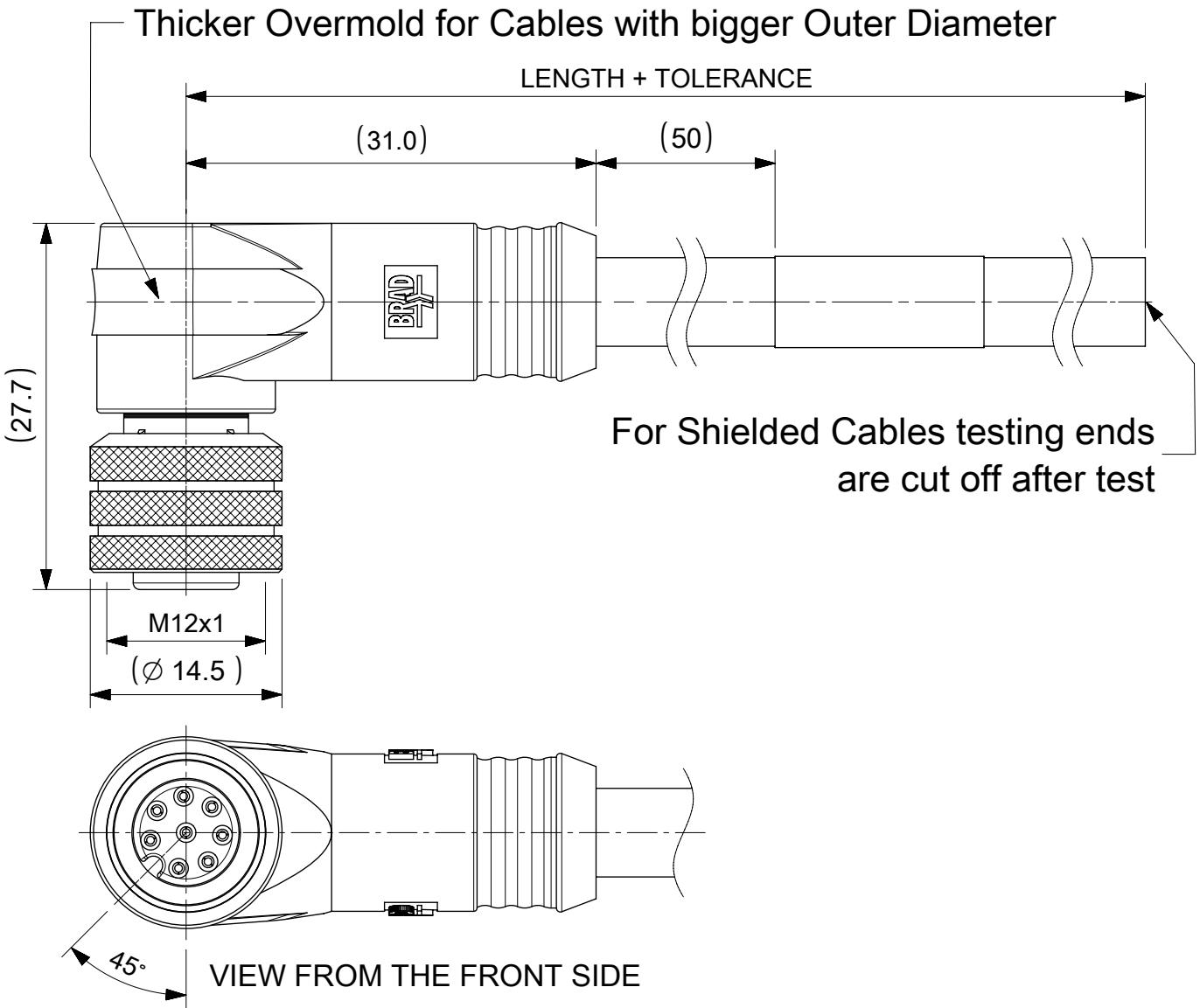


FEMALE PLUG M12 90° ANGLED



NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
PROTECTION CLASS: IP 67
TEMPERATURE: CABLE INFORMATION
ON SHEET 2



CONTACTS POSITION FRONT VIEW:

3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN	1	WHITE
2	---	2	WHITE	2	WHITE	2	BROWN
3	BLUE	3	BLUE	3	BLUE	3	GREEN
4	BLACK or YELLOW/GREEN	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY or YELLOW/GREEN	5	GREY
						6	PINK
						7	BLUE
						8	RED

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS	P1	RELEASE DATE	2024/01/29	05:14:35
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FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT M12 FEMALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514486				molex					
mm		2:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE RA XM SE UNSH									
ANGULAR TOL ± 1.0 °													
4 PLACES		±								EC NO: 774109			
3 PLACES		±								DRWN: VISHAH2 2023/12/20			
2 PLACES		± 0.05		CHK'D: GGA 2024/01/29									
1 PLACE		± 0.1		APPR: GGA 2024/01/29									
0 PLACES		± 0.2		PRODUCT CUSTOMER DRAWING									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													
THIRD ANGLE PROJECTION				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
				1200658471		PSD		000		A13			
DRAWING				MATERIAL NUMBER		CUSTOMER				SHEET NUMBER			
A3-SIZE				120065		SEE PART LIST		GENERAL MARKET					
										1 OF 5			

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

80X001XXXXXX

80=M12x1
Single ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

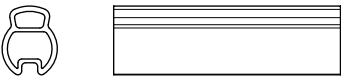
Heads style:
001=Plug Female
90° Angled

Cable type: See Table

Units:
M=Meter
C=Centimeter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

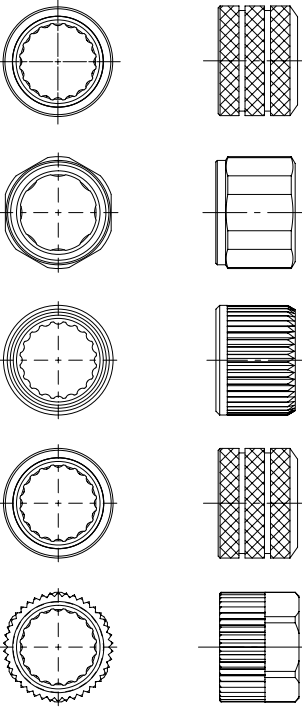
OPTIONS



H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

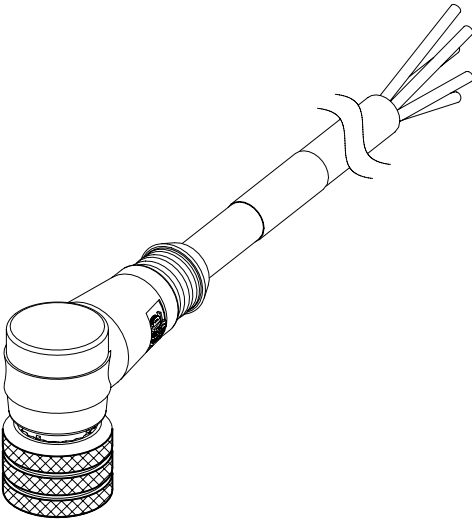
Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables A09,S19,S20,S26
Blank=Yellow TPE-E for cables K03,K05
A=Grey / G=Black / Y=Yellow
Blank=Yellow PVC for cable E13
Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

COUPLING NUTS



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

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
A09	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661	I/II A/B 90°C/300V	-	-	-	-
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E02	3 / 4 / 5 / 8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
H08	3 / 4 / 5 / 8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H12	4	0.50mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-50°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000, Temp max 60°C	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
I02	3 / 4 / 8	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I04	4	0.50mm²	PVC CEI GREY	-	-	-25°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
K03	5	18 AMG	TPE YELLOW	PLTC 105C E470965	I/II A/B 90°C/300V	-	-	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P02	3 / 4 / 5 / 8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P12	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
P19	8	0.25mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	2 000 000 cycles, 15xO.D.	YES
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, 10xO.D.	-15°C to +105°C, 15xO.D.	-	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES



SCALE 1:1

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

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DIMENSION UNITS
mm

SCALE
1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING
A3-SIZE

SERIES
120065

MATERIAL NUMBER
SEE PART LIST

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 5

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514486

EC NO: 774109
DRWN: VISHAH2
CHK'D: GGA
APPR: GGA
2023/12/20
2024/01/29
2024/01/29

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER
2016/01/11
2016/04/08

DOCUMENT NUMBER
1200658471

DOC TYPE
PSD

DOC PART
000

REVISION
A13

molex

CSE M12 XP AC FE RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

PART LIST

No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
141	1200658586	808001E02M020	2m	176	1200659033	804001E02M100	10m	211	1200659773	804001H12M0509	✱ 5m	246	1200658206	804001P03M060	6m
142	1200658587	808001E02M030	3m	177	1200659039	804001E02M070	7m	212	1200659775	803001P03M050HY	5m	247	1200658311	803001P03M200	20m
143	1200658589	808001E02M100	10m	178	1200659048	804001E02M1001	10m	213	1200658588	808001E02M040	4m	248	1200658312	803001P03M300	30m
144	1200658594	803001I03M040	4m	179	1200659068	804001I03M050Y	5m	214	1200060482	804001E03M040	4m	249	1200658611	803001P03M040	4m
145	1200658607	805001I03M030	3m	180	1200659078	804001I03M100Y	10m	215	1200061540	803001E03M033	3.3m	250	1200658617	805001P03M010	1m
146	1200658608	805001I03M040	4m	181	1200659084	805001I26M050Y	5m	216	1200061541	803001E03M022	2.2m	251	1200658627	805001P03M030	3m
147	1200658619	808001P02M010	1m	182	1200659095	804001H09M050HY	5m	217	1200061542	803001E03M011	1.1m	252	1200651639	804001K05M020	2m
148	1200658649	808001H08M020	2m	183	1200659112	804001H12M050	5m	218	1200063648	804001E03M2001	20m	253	1200651640	804001K05M030	3m
149	1200658652	808001H08M100	10m	184	1200659117	805001I26M100Y	10m	219	1200064145	804001E03M3001	30m	254	1200651628	804001K03M050	5m
150	1200658664	805001H09M010	1m	185	1200659118	803001I03M050Y	5m	220	1200064402	804001E03M005	0.5m	255	1200651634	804001K03M100	10m
151	1200658666	805001H09M030	3m	186	1200659120	803001I03M030Y	3m	221	1200658884	804001E03M100H	10m	256	1200651720	805001K03M020	2m
152	1200658668	804001H09M010	1m	187	1200659121	803001I03M100Y	10m	222	1200658898	804001E03M150H	15m	257	1200651722	805001K03M050	5m
153	1200658670	804001H09M030	3m	188	1200659124	804001H09M100HY	10m	223	1200659352	805001E03M1001	10m	258	1200652155	805001K03M100	10m
154	1200658683	808001I02M010	1m	189	1200659140	805001H09M200	20m	224	1200659353	805001E03M2501	25m	259	1200658783	804001E03M060	6m
155	1200658684	808001I02M020	2m	190	1200659147	805001E03M200	20m	225	1200659502	805001E03M005	0.5m	260	1200651557	804001A09M0402	4m
156	1200658685	808001I02M030	3m	191	1200659160	804001I03M020Y	2m	226	1200658647	808001H08M010	1m	261	1200651558	804001A09M050	5m
157	1200658686	808001I02M040	4m	192	1200659164	804001E03M025	2.5m	227	1200658648	808001H08M015	✱ 1.5m	262	1200651560	804001A09M0502	5m
158	1200658687	808001I02M050	5m	193	1200659168	803001I03M025Y	2.5m	228	1200658650	808001H08M030	✱ 3m	263	1200651562	804001A09M060	6m
159	1200658688	808001I02M100	10m	194	1200659173	803001E03M050H	5m	229	1200658651	808001H08M040	4m	264	1200651564	804001A09M070	7m
160	1200658707	804001I03M010G	1m	195	1200659181	803001E03M100H	10m	230	1200658196	804001H09M200	20m	265	1200651565	804001A09M080	8m
161	1200658708	804001I03M020G	2m	196	1200659182	804001E03M020H	2m	231	1200658665	805001H09M015	1.5m	266	1200651566	804001A09M090	9m
162	1200658709	804001I03M030G	3m	197	1200659235	803001E03M300	30m	232	1200658667	805001H09M040	✱ 4m	267	1200651569	804001A09M120	12m
163	1200658710	804001I03M040G	4m	198	1200659251	804001H12M010	1m	233	1200658669	804001H09M015	✱ 1.5m	268	1200651573	804001A09M170	17m
164	1200658711	804001I03M050G	5m	199	1200659252	804001H12M030	3m	234	1200658671	804001H09M040	4m	269	1200651574	804001A09M180	18m
165	1200658712	804001I03M100G	10m	200	1200659266	804001P03M020Y	2m	235	1200658714	803001H09M015	1.5m	270	1200651696	805001A09M005	0.5m
166	1200658713	803001H09M010	1m	201	1200659270	804001H12M100	10m	236	1200658716	803001H09M030	3m	271	1200651697	805001A09M020	2m
167	1200658715	803001H09M020	2m	202	1200659342	804001P03M1501	15m	237	1200658717	803001H09M040	4m	272	1200651699	805001A09M0202	2m
168	1200658718	803001H09M050	5m	203	1200659343	804001P03M2501	25m	238	1200659675	804001H09M220	22m	273	1200651700	805001A09M040	4m
169	1200658719	803001H09M100	10m	204	1200659361	804001I03M030Y	3m	239	1200658620	808001P02M030	3m	274	1200651701	805001A09M050	5m
170	1200658931	808001E02M150	15m	205	1200659373	803001E02M030	3m	240	1200061318	803001P03M010	1m	275	1200651703	805001A09M060	6m
171	1200658932	808001E02M250	25m	206	1200659398	808001P02M100Y	10m	241	1200063405	804001P03M003	0.3m	276	1200651704	805001A09M070	7m
172	1200658933	805001P12M050	5m	207	1200659592	805001E03M080	8m	242	1200063793	804001P03M140	14m	277	1200651705	805001A09M080	8m
173	1200658934	805001P12M100	10m	208	1200659637	808001E02M1001	10m	243	1200652156	805001P03M060	6m	278	1200651706	805001A09M100	10m
174	1200658992	804001P03M050H	5m	209	1200659771	804001H12M1009	10m	244	1200656575	805001P03M300	30m	279	1200651708	805001A09M1002	10m
175	1200659032	804001E02M050	5m	210	1200659772	804001H12M0309	✱ 3m	245	1200658184	805001P03M040	4m	280	1200651868	805001A09M0708	7m

NOTES:
- Part No. with Yellow PVC overmolding

PART LIST

No.	Part No.	Engineering No.	Cable Length
281	1200651949	804001A09M0602	6m
282	1200651983	805001A09M030	3m
283	1200651985	803001A09M0202	2m
284	1200652078	804001A09M0302	3m
285	1200652079	805001A09M300	30m
286	1200652111	805001A09M150	15m
287	1200652122	805001A09M0502	5m
288	1200652170	804001A09C2508	0.25m
289	1200652197	805001A09M1508	15m
290	1200652216	804001A09M0708	7m
291	1200652419	804001A09M2008	20m
292	1200652439	804001A09M0108	1m
293	1200659215	805001A09M010	1m
294	1200659216	805001A09M200	20m
295	1202010010	804001A09M250	25m
296	1200060221	803001S20M020	2m
297	1200060222	803001S20M030	3m
298	1200060224	803001S20M050	5m
299	1200659374	804001S20M350	35m
300	1200659774	808001S19M150	15m
301	1200659810	805001S26M200	20m
302	1200060225	803001S20M100	10m
303	1200060527	804001S20M010	1m
304	1200060528	804001S20M020	2m
305	1200060529	804001S20M030	3m
306	1200060531	804001S20M050	5m
307	1200061612	804001S20M030H	3m
308	1200062121	804001S20M060	6m
309	1200062148	804001I20M160	16m
310	1200062160	804001S20M100H	10m
311	1200062374	804001S20M020H	2m
312	1200062502	804001S20M050H	5m
313	1200062589	804001S20M010H	1m
314	1200062919	804001P20M100	10m
315	1200062922	804001P20M050	5m

No.	Part No.	Engineering No.	Cable Length
316	1200063109	804001S20M1001	10m
317	1200063165	805001P20M050	5m
318	1200064184	804001P20M250	25m
319	1200064268	808001S19M100	10m
320	1200064380	804001S20M0201	2m
321	1200064381	804001S20M0501	5m
322	1200064452	804001S20M3001	30m
323	1200064457	803001S20M0501	5m
324	1200650910	804001S20M100	10m
325	1200655008	808001P19M050	5m
326	1200658090	805001S26M100	10m
327	1200658187	804001S20M200	20m
328	1200658203	805001S26M1001	10m
329	1200658276	804001I20M100	10m
330	1200658287	803001I20M100	10m
331	1200658324	804001P20M030	3m
332	1200658328	808001P19M100	10m
333	1200658510	804001S20M2001	20m
334	1200658544	808001P19M250	25m
335	1200658547	803001P20M150	15m
336	1200658875	803001S20M0201G	2m
337	1200659029	804001S20M150	15m
338	1200659114	805001S26M050	5m
339	1200659156	805001S26M2001	20m
340	1200659240	803001P20M100HY	10m
341	1200657238	805001E03M250	25m
342	1200657145	804001P03M006	0.6m
343	1200657146	804001P03M070	7m
344	1200657147	804001P03M080	8m
345	1200657148	804001E03M003	0.3m
346	1200657149	804001E03M006	0.6m
347	1200657150	804001E03M080	8m
348	1200657185	805001E03M015	1.5m
349	1200658573	805001E03M010	1m
350	1200657265	805001H09M500	50m

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DIMENSION UNITS

mm

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

5 OF 5

CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514486

EC NO: 774109

DRWN: VISHAH2

CHK'D: GGA

APPR: GGA

2023/12/20

2024/01/29

2024/01/29

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/11

2016/04/08

DOCUMENT NUMBER

1200658471

DOC TYPE

PSD

DOC PART

000

REVISION

A13

CSE M12 XP AC FE RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT STATUS

P1

RELEASE DATE

2024/01/29

05:14:35

9

8

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