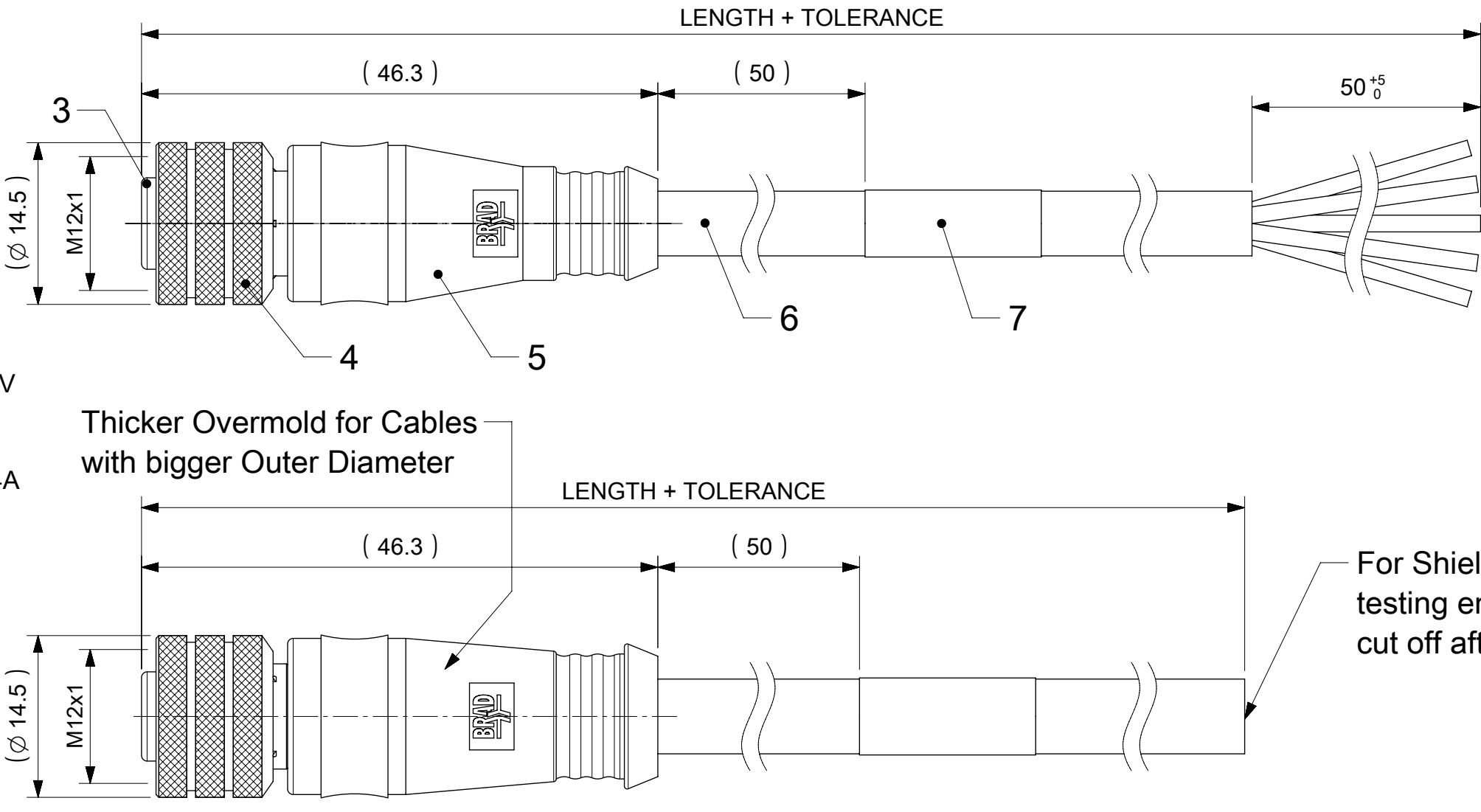


FEMALE PLUG M12 STRAIGHT

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: -25°C / +85°C



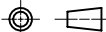
CONTACTS POSITION FRONT VIEW:

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	2025/05/16	14:46:25
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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		CURRENT REV DESC: THE CROSS SECTION VALUE OF K03 CABLE IS UPDATED		
SCALE				
mm				
2:1				
GENERAL TOLERANCES (UNLESS SPECIFIED)		CSE M12 XP AC FE STR XM SE UNSH		
ANGULAR TOL ± 1.0 °				
4 PLACES		EC NO: 822303 DRWN: VHANDI 2025/05/15 CHK'D: RSILLER 2025/05/16 APPR: RSILLER 2025/05/16		
3 PLACES				
2 PLACES		PRODUCT CUSTOMER DRAWING		
1 PLACE				
0 PLACES		DOCUMENT NUMBER 1200658605		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
THIRD ANGLE PROJECTION		DOC TYPE PSD		
		DOC PART 000		
DRAWING A3-SIZE		REVISION A8		
SERIES 120065		SHEET NUMBER 1 OF 4		
MATERIAL NUMBER SEE PART LIST		CUSTOMER GENERAL MARKET		

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

80X000XX

80=M12x1
Single ended

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

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

OPTIONS

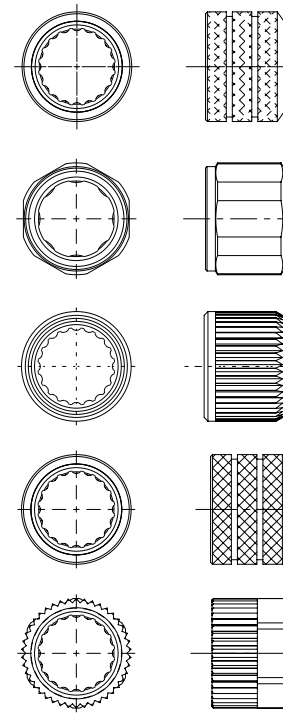


H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

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

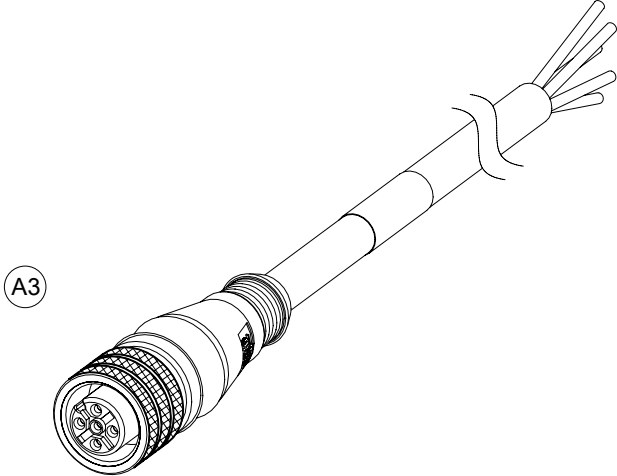
Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

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
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E63	5	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
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	4 / 5	0.75mm²	TPE YELLOW	UL JEC 60332-1 or PLCT	I/II 90°C/300V	-	-	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.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

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

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: THE CROSS SECTION VALUE OF K03 CABLE IS UPDATED

EC NO: 822303
DRWN: VHANDI
CHK'D: RSILLER
APPR: RSILLER

2025/05/15
2025/05/16
2025/05/16

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/12
2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

1200658605

PSD

000

A8

SEE PART LIST

GENERAL MARKET

2 OF 4

10	9	8	7	6	5	4	3	2	1
PART LIST									
MOLEX P/N			ENGINEERING No.		L [mm]				
3P CABLE E13									
1200658524	803000E13M030		3000						
3P CABLE E52									
1200651767	803000E52M050A		5000						
1200658293	803000E52M3001A		30000						
4P CABLE E52									
1200064254	804000E52M010A		1000						
1200651778	804000E52M050A		5000						
1200651857	804000E52M100A		10000						
1200060436	804000E52M200A		20000						
1200061620	804000E52M3001A		30000						
1200063819	804000E52K0011A		100000						
8P CABLE E52									
1200657335	808000E52M005		500						
1200658236	808000E52M020		2000						
1200062049	808000E52M050		5000						
1200659997	808000E52M100		10000						
5P CABLE E63									
1200658015	805000E63M020A		2000						
1200061936	805000E63M050A		5000						
4P CABLE H12									
1200659593	804000H12M020		2000						
1200659767	804000H12M0209		2000						
1200659768	804000H12M0309		3000						
1200659113	804000H12M050		5000						
1200659769	804000H12M0509		5000						
1200659271	804000H12M100		10000						
1200659770	804000H12M1009		10000						
3P CABLE H69									
1200062094	803000H69M050		5000						
4P CABLE H69									
1200061680	804000H69M050		5000						
1200658242	804000H69M300		30000						
8P CABLE I02									
1200658677	808000I02M010		1000						
1200658678	808000I02M020		2000						
1200658679	808000I02M030		3000						
1200658680	808000I02M040		4000						
1200658681	808000I02M050		5000						
1200658682	808000I02M100		10000						

NOTES:

✱ - Part No. with Yellow PVC overmolding

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/16	14:46:25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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PART LIST

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE P04		
1200063017	804000P04M0083	800
1200063114	804000P04M0163	1600
1200062364	804000P04M020G	2000
3P CABLE P12		
1200063141	803000P12M0033	300
5P CABLE P12		
1200063041	805000P12M0033	300
1200658086	805000P12M020	2000
1200064445	805000P12M023	2300
1200659393	805000P12M050	5000
1200062858	805000P12M100	10000
8P CABLE P19		
1200062765	808000P19M020	2000
1200062675	808000P19M030	3000
1200062676	808000P19M050	5000
1200655074	808000P19M060	6000
1200652019	808000P19M100	10000
1200658104	808000P19M150	15000

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE P20		
1200064490	804000P20M020	2000
1200062656	804000P20M030	3000
1200062657	804000P20M050	5000
1200062604	804000P20M100	10000
1200062869	804000P20M150	15000
1200658282	804000P20M250	25000
5P CABLE P20		
1200063913	805000P20M003	300
1200659049	805000P20M050	5000
1200063035	805000P20M100	10000
1200659635	805000P20M300	30000
3P CABLE P82		
1200062754	803000P82M0047	400
1200062454	803000P82M0067	600
1200064073	803000P82M0107	1000
1200064256	803000P82M0207	2000
1200061240	803000P82M0507	5000
5P CABLE P82		
1200065005	805000P82M0207	2000
1200060715	805000P82M050	5000
1200658299	805000P82M100	10000
1200659026	805000P82M1007	10000
8P CABLE S19		
1200658256	808000S19M006	600
1200656198	808000S19M010	1000
1200656199	808000S19M020	2000
1200656200	808000S19M030	3000
1200656201	808000S19M050	5000
1200658972	808000S19M100	10000
1200868439	808000S19M150	15000
1200659183	808000S19M150H	15000
1200659175	808000S19M200H	20000

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE S20		
1200063569	803000S20M003	300
1200060166	803000S20M010	1000
1200060167	803000S20M020	2000
1200060168	803000S20M030	3000
1200060170	803000S20M050	5000
1200659390	803000S20M070	7000
1200060171	803000S20M100	10000
1200060173	803000S20M150	15000
4P CABLE S20		
1200060469	804000S20M010	1000
1200062496	804000S20M010H	1000
1200060470	804000S20M020	2000
1200060471	804000S20M0201	2000
1200062268	804000S20M020H	2000
1200060472	804000S20M030	3000
1200062040	804000S20M030H	3000
1200060474	804000S20M050	5000
1200063859	804000S20M0501	5000
1200063182	804000S20M0501H	5000
1200062037	804000S20M050H	5000
1200060476	804000S20M100	10000
1200063409	804000S20M1001	10000
1200062363	804000S20M100H	10000
1200060478	804000S20M150	15000
1200655010	804000S20M150H	15000
1200063993	804000S20M200	20000
1200063684	804000S20M2001	20000
1200659376	804000S20M350	35000
5P CABLE S20		
1200658474	805000S20M020	2000
1200658230	805000S20M050	5000
5P CABLE S26		
1200658252	805000S26M020	2000
1200655003	805000S26M050	5000
1200655009	805000S26M100	10000
1200659989	805000S26M200	20000

NOTES:

* - Part No. with Yellow PVC overmolding

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS mm		SCALE 1:1		CURRENT REV DESC: THE CROSS SECTION VALUE OF K03 CABLE IS UPDATED			molex								
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL ± 1.0 °				CSE M12 XP AC FE STR XM SE UNSH											
4 PLACES ±															
3 PLACES ±				PRODUCT CUSTOMER DRAWING											
2 PLACES ± 0.05															
1 PLACE ± 0.3				DOCUMENT NUMBER 1200658605			DOC TYPE PSD	DOC PART 000	REVISION A8						
0 PLACES ± 0.5															
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 4 OF 4	

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/16	14:46:25
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