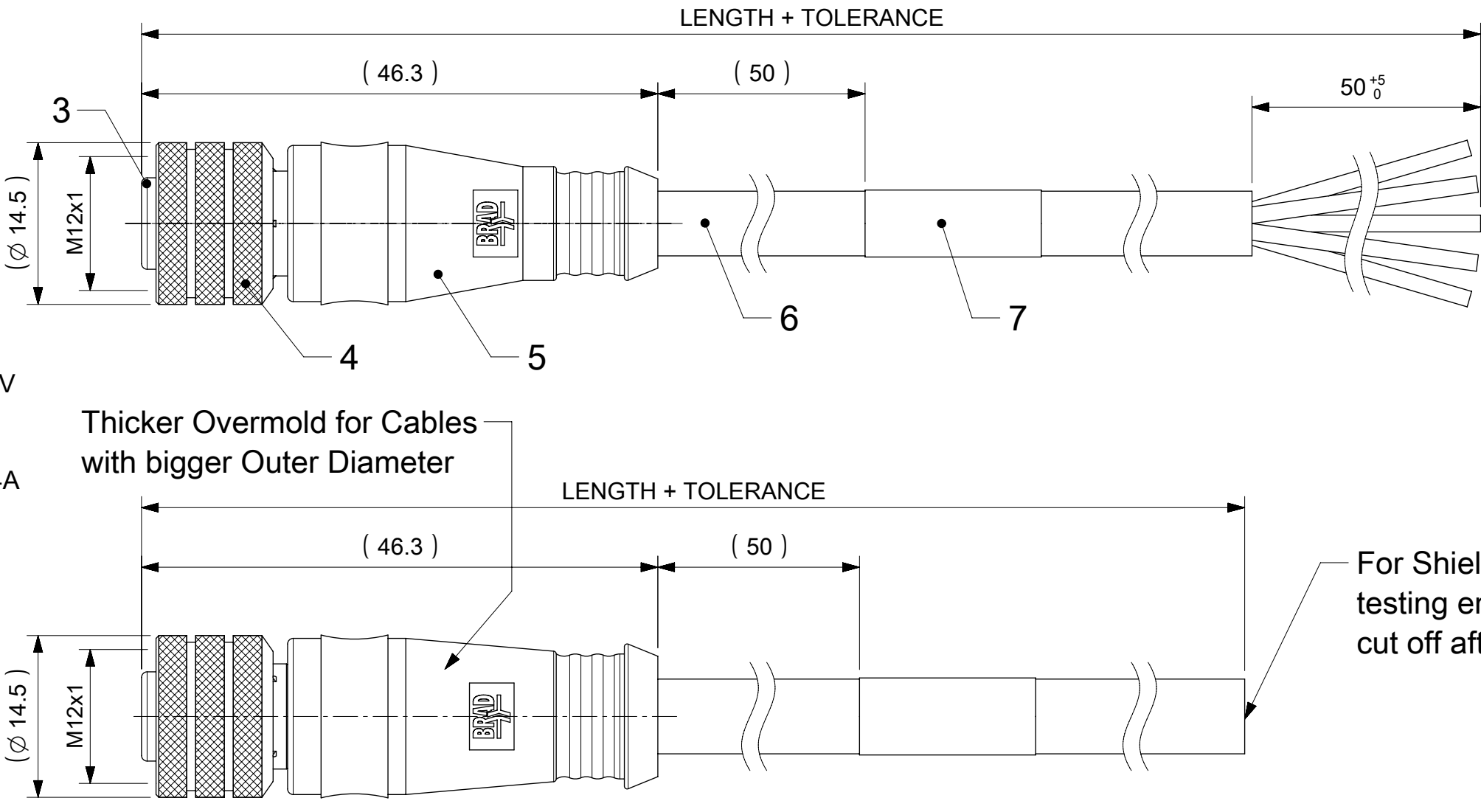


FEMALE PLUG M12 STRAIGHT

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

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: OBSOLETE PART NUMBERS AS PER PCN#506884		
mm	2:1			
GENERAL TOLERANCES (UNLESS SPECIFIED)		molex CSE M12 XP AC FE STR XM SE UNSH		
ANGULAR TOL ± 1.0 °				
4 PLACES	±	EC NO: 662770 DRWN: SUGEEB 2021/02/22 CHK'D: GGA 2021/06/02 APPR: GGA 2021/06/02		
3 PLACES	±			
2 PLACES	± 0.05			
1 PLACE	± 0.3	INITIAL REVISION: DRWN: JMARSZALEK 2016/01/12 APPR: RSILLER 2016/04/08		
0 PLACES	± 0.5			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
			A3-SIZE	120065
		MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		SEE SHEETS 3,4	GENERAL MARKET	1 OF 4
		DOCUMENT NUMBER 1200658605		
		DOC TYPE PSD	DOC PART 000	REVISION A5

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

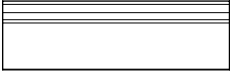
Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

OPTIONS

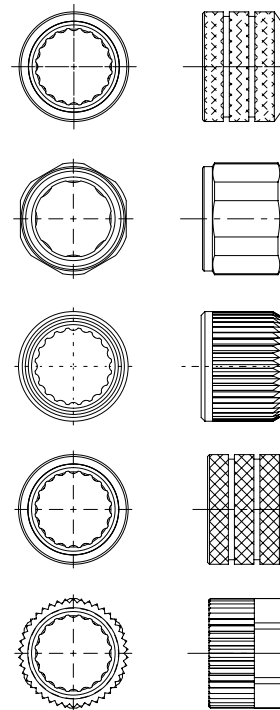


H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

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

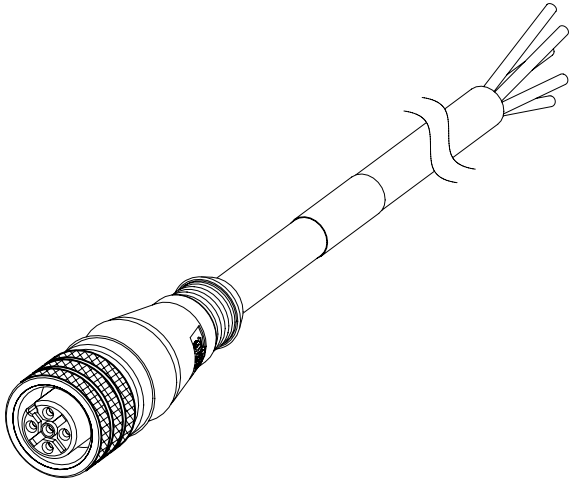
Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

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	0.34mm²	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

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DIMENSION UNITS

SCALE

mm1:1

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: OBSOLETE PART NUMBERS AS PER PCN#506884

EC NO: 662770
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

2021/02/22
2021/06/02
2021/06/02

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

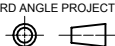
000

A5

SEE SHEETS 3, 4

GENERAL MARKET

2 OF 4

10	9	8	7	6	5	4	3	2	1		
PART LIST											
No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
1	1200060017	804000I03M050	5m	36	1200061955	804000I03M200A	20m	71	1200063684	804000S20M2001	✱ 20m
2	1200060030	803000I03M050	5m	37	1200061956	804000I03M300A	30m	72	1200063819	804000E52K0011A	100m
3	1200060033	804000I03M100	10m	38	1200061957	804000I03M400A	40m	73	1200063824	805000I03M050G	5m
4	1200060035	804000P82M0507	5m	39	1200061970	804000I03M100A	10m	74	1200063859	804000S20M0501	✱ 5m
5	1200060036	804000P82M1007	10m	40	1200062003	805000I03M050	5m	75	1200063913	805000P20M003	0.3m
6	1200060145	803000I03M020	2m	41	1200062037	804000S20M050H	5m	76	1200063993	804000S20M200	20m
7	1200060148	803000I03M100	10m	42	1200062040	804000S20M030H	3m	77	1200064044	804000P82M020	2m
8	1200060166	803000S20M010	1m	43	1200062049	808000E52M050	5m	78	1200064072	804000P82M006	0.6m
9	1200060167	803000S20M020	2m	44	1200062094	803000H69M050	5m	79	1200064073	803000P82M0107	1m
10	1200060168	803000S20M030	3m	45	1200062254	804000P82M0207	2m	80	1200064161	804000I20M100	10m
11	1200060170	803000S20M050	5m	46	1200062268	804000S20M020H	2m	81	1200064164	804000I20M020	2m
12	1200060171	803000S20M100	10m	47	1200062363	804000S20M100H	10m	82	1200064230	804000I03M080	8m
13	1200060173	803000S20M150	15m	48	1200062364	804000P04M020G	2m	83	1200064254	804000E52M010A	1m
14	1200060436	804000E52M200A	20m	49	1200062454	803000P82M0067	0.6m	84	1200064256	803000P82M0207	2m
15	1200060452	804000I03M020	2m	50	1200062496	804000S20M010H	1m	85	1200064445	805000P12M023	2.3m
16	1200060454	804000I03M030	3m	51	1200062604	804000P20M100	10m	86	1200064490	804000P20M020	2m
17	1200060466	804000P82M030	3m	52	1200062656	804000P20M030	3m	87	1200065005	805000P82M0207	2m
18	1200060467	804000P82M050	5m	53	1200062657	804000P20M050	5m	88	1200651108	803000K05M020	2m
19	1200060468	804000P82M100	10m	54	1200062675	808000P19M030	3m	89	1200651110	803000K05M050	5m
20	1200060469	804000S20M010	1m	55	1200062676	808000P19M050	5m	90	1200651121	804000K05M020	2m
21	1200060470	804000S20M020	2m	56	1200062754	803000P82M0047	0.4m	91	1200651124	804000K05M050	5m
22	1200060471	804000S20M0201	✱ 2m	57	1200062765	808000P19M020	2m	92	1200651126	804000K05M100	10m
23	1200060472	804000S20M030	3m	58	1200062858	805000P12M100	10m	93	1200651767	803000E52M050A	5m
24	1200060474	804000S20M050	5m	59	1200062869	804000P20M150	15m	94	1200651778	804000E52M050A	5m
25	1200060476	804000S20M100	10m	60	1200062969	805000I26M100	10m	95	1200651857	804000E52M100A	10m
26	1200060478	804000S20M150	15m	61	1200063017	804000P04M0083	0.8m	96	1200652019	808000P19M100	10m
27	1200060644	805000I03M030	3m	62	1200063035	805000P20M100	10m	97	1200655003	805000S26M050	5m
28	1200060645	805000I03M100	10m	63	1200063041	805000P12M0033	0.3m	98	1200655009	805000S26M100	10m
29	1200060715	805000P82M050	5m	64	1200063114	804000P04M0163	1.6m	99	1200655010	804000S20M150H	15m
30	1200061240	803000P82M0507	5m	65	1200063141	803000P12M0033	0.3m	100	1200655025	805000I03M100G	10m
31	1200061559	803000I20M100	10m	66	1200063182	804000S20M0501H	5m	101	1200655074	808000P19M060	6m
32	1200061620	804000E52M3001A	30m	67	1200063205	804000I03M060	6m	102	1200656198	808000S19M010	1m
33	1200061680	804000H69M050	5m	68	1200063409	804000S20M1001	✱ 10m	103	1200656199	808000S19M020	2m
34	1200061727	805000I26M050	5m	69	1200063562	804000I04M030	3m	104	1200656200	808000S19M030	3m
35	1200061936	805000E63M050A	5m	70	1200063569	803000S20M003	0.3m	105	1200656201	808000S19M050	5m
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		SCALE		CURRENT REV		DESC: OBSOLETED PART NUMBERS		AS PER PCN#506884			
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		THIRD ANGLE PROJECTION		DRAWING		SERIES					
				A3-SIZE		120065					

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																																																																																																																																																																																																					
	PART LIST																																																																																																																																																																																																																																																																																																																																																																																																																																														
F	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>141</td><td>1200658972</td><td>808000S19M100</td><td>10m</td></tr> <tr><td>142</td><td>1200659026</td><td>805000P82M1007</td><td>10m</td></tr> <tr><td>143</td><td>1200659049</td><td>805000P20M050</td><td>5m</td></tr> <tr><td>144</td><td>1200659060</td><td>804000I03M050Y</td><td>5m</td></tr> <tr><td>145</td><td>1200659064</td><td>803000I03M050Y</td><td>5m</td></tr> <tr><td>146</td><td>1200659065</td><td>804000I03M100Y</td><td>10m</td></tr> <tr><td>147</td><td>1200659066</td><td>804000P82M0507Y</td><td>5m</td></tr> <tr><td>148</td><td>1200659067</td><td>804000P82M1007Y</td><td>10m</td></tr> <tr><td>149</td><td>1200659075</td><td>804000I03M020Y</td><td>2m</td></tr> <tr><td>150</td><td>1200659085</td><td>805000I03M050Y</td><td>5m</td></tr> <tr><td>151</td><td>1200659087</td><td>804000P82M0207Y</td><td>2m</td></tr> <tr><td>152</td><td>1200659090</td><td>805000I26M100Y</td><td>10m</td></tr> <tr><td>153</td><td>1200659113</td><td>804000H12M050</td><td>5m</td></tr> <tr><td>154</td><td>1200659116</td><td>805000I26M050Y</td><td>5m</td></tr> <tr><td>155</td><td>1200659119</td><td>803000I03M020Y</td><td>2m</td></tr> <tr><td>156</td><td>1200659175</td><td>808000S19M200H</td><td>20m</td></tr> <tr><td>157</td><td>1200659177</td><td>804000I03M030Y</td><td>3m</td></tr> <tr><td>158</td><td>1200659183</td><td>808000S19M150H</td><td>15m</td></tr> <tr><td>159</td><td>1200659271</td><td>804000H12M100</td><td>10m</td></tr> <tr><td>160</td><td>1200659371</td><td>805000I03M100Y</td><td>10m</td></tr> <tr><td>161</td><td>1200659376</td><td>804000S20M350</td><td>35m</td></tr> <tr><td>162</td><td>1200659390</td><td>803000S20M070</td><td>7m</td></tr> <tr><td>163</td><td>1200659393</td><td>805000P12M050</td><td>5m</td></tr> <tr><td>164</td><td>1200659558</td><td>803000I20M100Y</td><td>10m</td></tr> <tr><td>165</td><td>1200659593</td><td>804000H12M020</td><td>2m</td></tr> <tr><td>166</td><td>1200659621</td><td>804000I04M050</td><td>5m</td></tr> <tr><td>167</td><td>1200659635</td><td>805000P20M300</td><td>30m</td></tr> <tr><td>168</td><td>1200659694</td><td>804000P82M1507Y</td><td>15m</td></tr> <tr><td>169</td><td>1200659767</td><td>804000H12M0209</td><td>2m</td></tr> <tr><td>170</td><td>1200659768</td><td>804000H12M0309</td><td>3m</td></tr> <tr><td>171</td><td>1200659769</td><td>804000H12M0509</td><td>5m</td></tr> <tr><td>172</td><td>1200659770</td><td>804000H12M1009</td><td>10m</td></tr> <tr><td>173</td><td>1200659989</td><td>805000S26M200</td><td>20m</td></tr> <tr><td>174</td><td>1200659997</td><td>808000E52M100</td><td>10m</td></tr> <tr><td>175</td><td>1200868439</td><td>808000S19M150</td><td>15m</td></tr> </table>	No.	Part No.	Engineering No.	Cable Length	141	1200658972	808000S19M100	10m	142	1200659026	805000P82M1007	10m	143	1200659049	805000P20M050	5m	144	1200659060	804000I03M050Y	5m	145	1200659064	803000I03M050Y	5m	146	1200659065	804000I03M100Y	10m	147	1200659066	804000P82M0507Y	5m	148	1200659067	804000P82M1007Y	10m	149	1200659075	804000I03M020Y	2m	150	1200659085	805000I03M050Y	5m	151	1200659087	804000P82M0207Y	2m	152	1200659090	805000I26M100Y	10m	153	1200659113	804000H12M050	5m	154	1200659116	805000I26M050Y	5m	155	1200659119	803000I03M020Y	2m	156	1200659175	808000S19M200H	20m	157	1200659177	804000I03M030Y	3m	158	1200659183	808000S19M150H	15m	159	1200659271	804000H12M100	10m	160	1200659371	805000I03M100Y	10m	161	1200659376	804000S20M350	35m	162	1200659390	803000S20M070	7m	163	1200659393	805000P12M050	5m	164	1200659558	803000I20M100Y	10m	165	1200659593	804000H12M020	2m	166	1200659621	804000I04M050	5m	167	1200659635	805000P20M300	30m	168	1200659694	804000P82M1507Y	15m	169	1200659767	804000H12M0209	2m	170	1200659768	804000H12M0309	3m	171	1200659769	804000H12M0509	5m	172	1200659770	804000H12M1009	10m	173	1200659989	805000S26M200	20m	174	1200659997	808000E52M100	10m	175	1200868439	808000S19M150	15m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>176</td><td>1200651122</td><td>804000K05M030</td><td>3m</td></tr> <tr><td>177</td><td>1200651367</td><td>805000K03M020</td><td>2m</td></tr> <tr><td>178</td><td>1200651370</td><td>805000K03M050</td><td>5m</td></tr> <tr><td>179</td><td>1200651373</td><td>805000K03M100</td><td>10m</td></tr> <tr><td>180</td><td></td><td></td><td></td></tr> <tr><td>181</td><td></td><td></td><td></td></tr> <tr><td>182</td><td></td><td></td><td></td></tr> <tr><td>183</td><td></td><td></td><td></td></tr> <tr><td>184</td><td></td><td></td><td></td></tr> <tr><td>185</td><td></td><td></td><td></td></tr> <tr><td>186</td><td></td><td></td><td></td></tr> <tr><td>187</td><td></td><td></td><td></td></tr> <tr><td>188</td><td></td><td></td><td></td></tr> <tr><td>189</td><td></td><td></td><td></td></tr> <tr><td>190</td><td></td><td></td><td></td></tr> <tr><td>191</td><td></td><td></td><td></td></tr> 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<tr><td>222</td><td></td><td></td><td></td></tr> <tr><td>223</td><td></td><td></td><td></td></tr> <tr><td>224</td><td></td><td></td><td></td></tr> <tr><td>225</td><td></td><td></td><td></td></tr> <tr><td>226</td><td></td><td></td><td></td></tr> <tr><td>227</td><td></td><td></td><td></td></tr> <tr><td>228</td><td></td><td></td><td></td></tr> <tr><td>229</td><td></td><td></td><td></td></tr> <tr><td>230</td><td></td><td></td><td></td></tr> <tr><td>231</td><td></td><td></td><td></td></tr> <tr><td>232</td><td></td><td></td><td></td></tr> <tr><td>233</td><td></td><td></td><td></td></tr> <tr><td>234</td><td></td><td></td><td></td></tr> <tr><td>235</td><td></td><td></td><td></td></tr> <tr><td>236</td><td></td><td></td><td></td></tr> <tr><td>237</td><td></td><td></td><td></td></tr> <tr><td>238</td><td></td><td></td><td></td></tr> <tr><td>239</td><td></td><td></td><td></td></tr> <tr><td>240</td><td></td><td></td><td></td></tr> <tr><td>241</td><td></td><td></td><td></td></tr> 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No.	Part No.	Engineering No.	Cable Length
176	1200651122	804000K05M030	3m
177	1200651367	805000K03M020	2m
178	1200651370	805000K03M050	5m
179	1200651373	805000K03M100	10m
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Pos.	Part No.	Engineering No.	Cable Length
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257			
258			
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FORMAT: master-tb-prod-A3
REVISION: J
DATE: 2020/01/14

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REVISION: J
DATE: 2020/01/14