

# Instruction Manual ATEX/IECEX POWER EXTENSION CABLE





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# **General Description**

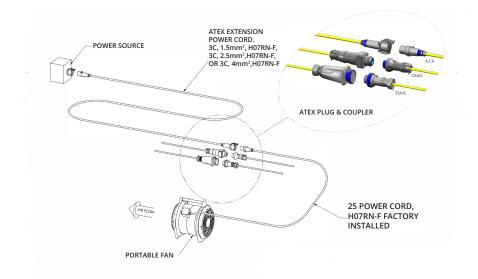
ATEX / IECEx Power Extension Cables are designed to temporarily extend the reach between an AC power source and an electrical device, such as portable fans, area lighting, etc., for use in hazardous locations.

The power cables are built with three critical parts; Cable, Plug, and Couplers. Cables were selected based on the need for extra heavy-duty applications. Plugs and couplers were selected based on the most commonly used European connectors for hazardous locations.

The drawing below depicts the ATEX / IECEx Power cable application, used to extend the reach of a portable ATEX fan with H07RN-F cable and with three of the most popular brands of A.T.X, CEAG, and R. Stahl, connectors.

The ATEX/IECEx Power Extension Cables are available for 110VAC or 240VAC power requirements.

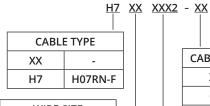
The Power Extension Cables have been certified to meet the ATEX Directive 2014/34/EU certification for Ex de G D Ex de IIB, Zone 1, 2, 21, & 22.



The Power Extension Cables described here are intended for use in Explosive Atmospheres in accordance within the limitation of the ratings. It is the user's responsibility to determine the suitability of the equipment for the intended purpose.

### PART NUMBER TABLE

(200-250VAC POWER CABLES)



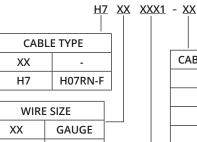
WIRE	SIZE
XX	GAUGE
15	1.5 mm <sup>2</sup>
25	2.5 mm <sup>2</sup>
40	4.0 mm <sup>2</sup>

CABLE LENG	GTH (METERS)
XX	-
01	1 m
02	2 m
$\downarrow$	$\downarrow$
99	99 m

CONNECTION TYPE				
XXX2				
APPLETON	240V			
STAHL	240V			
CEAG	240V			
	- APPLETON STAHL			

### PART NUMBER TABLE

(FOR 110-130VAC POWER CABLES)



CABLE LENG	GTH (METERS)
XX	-
01	1 m
02	2 m
↓	$\downarrow$
99	99 m

CONNECTION TYPE				
XXX1	-	-		
ATX1	APPLETON	110V		
STA1 STAHL 110V				
CEA1	CEAG	110V		

CABLE TYPE					
XX	-				
H7 H07RN-F					
WIRE SIZE					

WIRE SIZE		
XX	GAUGE	
15	1.5 mm <sup>2</sup>	
25	2.5 mm <sup>2</sup>	
40	4.0 mm <sup>2</sup>	

# Part Number Table \_\_\_\_

- Determine operating voltage 110 or 230VAC.
- Determine conductor based on application. NOTE: 2.5 mm<sup>2</sup> conductor size is most common but can be supplied with 1.5 or 4 mm<sup>2</sup> conductors.
- Determine brand and operating voltage for plug & couplers required to mate properly with power source and electrical devices.
- Determine overall power extension cable length required for application. Use tables here in as a guide to verify length needed will be appropriate. Verify power extension cable length does not exceed the maximum length, based on the amount of current required to run the electrical device.

Note: The power extension cables are designed to handle a maximum current of 16 amps. Use charts enclosed as a guide to verify cable lengths are acceptable. Note: Maximum power extension cable lengths for AC synchronous motor applications with a run current less or equal to 16 amps, must be determined by the locked rotor current / motor start current of the motor.

• Select plug & coupler type.

January 20,2020

#### ATEX / IECEx POWER EXTENSION CABLES H07RN-F 2.5mm<sup>2</sup> CABLE Maximum Cable Length Based on a Resistive AC Load Current

amps, AC)(volts, AC)(Cable Size) $\Omega$ /1000 ft(length,1.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1172.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT363.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT253.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT255.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT256.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT167.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT168.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT169.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1610.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1611.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1612.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1613.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1614.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT242.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1610.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT1610.0 $A_{Ac}$ 93.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT242.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²2.15 $\Omega$ /1000FT2410.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm² <td< th=""><th>МОТ</th><th>OR SPECIFICAT</th><th>TIONS</th><th>ATEX POWER</th><th>R EXTENSION CAB</th><th>LE, MAX. LE</th><th>NGTH &amp;</th></td<>	МОТ	OR SPECIFICAT	TIONS	ATEX POWER	R EXTENSION CAB	LE, MAX. LE	NGTH &
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	v <sub>source</sub> (volts, AC)	I <sub>LOAD CURRENT</sub> (amps, AC)				L <sub>CABLE-PWR-E</sub> (length, me	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>	104	93 5 V	2.5 mm <sup>2</sup>	2 15 O/1000ET	1170 m	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>	Ac					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>	Pic.	Ac				
So. A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 234 m   6.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 195 m   7.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 167 m   8.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 146 m   9.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 146 m   9.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 117 m   10.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 106 m   12.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 97 m   13.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 90 m   14.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 78 m   16.0 A <sub>AC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 78 m   16.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 78 m   16.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 1223 m   3.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 1224 m   3.0	110 V <sub>AC</sub>						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>		100				
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>	Pic.	Ac	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	97 m	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>			2.5 mm <sup>2</sup>	2.15 Ω/1000FT		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 V <sub>AC</sub>						
16.0 A <sub>KC</sub> 93.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 73 m   1.0 A <sub>KC</sub> 195.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 2446 m   2.0 A <sub>KC</sub> 195.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 1223 m   3.0 A <sub>KC</sub> 195.5 V <sub>AC</sub> 2.5 mm² 2.15 Ω/1000FT 1223 m   3.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 1815 m   4.0A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 612 m   5.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 489 m   6.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 489 m   9.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 306 m   9.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 306 m   9.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 222 m   10.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 222 m   11.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 222 m   12.0 A <sub>KC</sub> 195.5 V <sub>KC</sub> 2.5 mm² 2.15 Ω/1000FT 222 m	110 V <sub>AC</sub>	Pic	Ac	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	78 m	
1.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   2446 m     2.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   1223 m     3.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   1223 m     3.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   815 m     4.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   612 m     5.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   489 m     6.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   489 m     8.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   306 m     9.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   306 m     9.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   227 m     10.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   222 m     11.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1000FT   222 m     12.0 $A_{Ac}$ 195.5 $V_{Ac}$ 2.5 mm²   2.15 Ω/1	110 V <sub>AC</sub>			2.5 mm <sup>2</sup>	2.15 Ω/1000FT		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	230 V <sub>AC</sub>	1.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	2446 m	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	230 V <sub>AC</sub>	2.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	1223 m	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	230 V <sub>AC</sub>	3.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	815 m	
6.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   408 m     7.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   349 m     8.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   306 m     9.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   306 m     9.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   272 m     10.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   225 m     11.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   222 m     12.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   222 m     13.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   204 m	230 V <sub>AC</sub>	4.0A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	612 m	
7.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   349 m     8.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   306 m     9.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   272 m     10.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   272 m     10.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   245 m     11.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   222 m     12.0 A <sub>Ac</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT   204 m     13.0 A <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   204 m	230 V <sub>AC</sub>	5.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	489 m	
8.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>306 m</b> 9.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>272 m</b> 10.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>272 m</b> 10.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>245 m</b> 11.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>222 m</b> 12.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>204 m</b> 13.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm²   2.15 Ω/1000FT <b>204 m</b>	230 V <sub>AC</sub>	6.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	408 m	
9.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT <b>272 m</b> 10.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT <b>245 m</b> 11.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT <b>242 m</b> 12.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT <b>222 m</b> 12.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT <b>204 m</b> 13.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT <b>204 m</b>	230 V <sub>AC</sub>	7.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	349 m	
10.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   245 m     11.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   222 m     12.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   220 m     13.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   204 m     13.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   188 m	230 V <sub>AC</sub>	8.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	306 m	
11.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   222 m     12.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   204 m     13.0 Å <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   204 m	230 V <sub>AC</sub>	9.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	272 m	
12.0 A <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   204 m     13.0 A <sub>Ac</sub> 195.5 V <sub>Ac</sub> 2.5 mm²   2.15 Ω/1000FT   188 m	230 V <sub>AC</sub>	10.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	245 m	
13.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm <sup>2</sup> 2.15 Ω/1000FT <b>188 m</b>	230 V <sub>AC</sub>	11.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	222 m	
	230 V <sub>AC</sub>	12.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	204 m	
140.4 10F F.V. 2.F mm <sup>2</sup> 2.1F O/1000FT 17F m	230 V <sub>AC</sub>	13.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	188 m	
$14.0 R_{AC} = 155.5 V_{AC} = 2.51111^{-1} = 2.15221000F1 = 175111$	230 V <sub>AC</sub>	14.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	175 m	
15.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm <sup>2</sup> 2.15 Ω/1000FT <b>163 m</b>	230 V <sub>AC</sub>	15.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	163 m	
16.0 A <sub>AC</sub> 195.5 V <sub>AC</sub> 2.5 mm <sup>2</sup> 2.15 Ω/1000FT <b>153 m</b>	30 V <sub>AC</sub>	16.0 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	2.15 Ω/1000FT	153 m	

#### ATEX / IECEX POWER EXTENSION CABLES H07RN-F 4mm<sup>2</sup> CABLE Maximum Cable Length Based on a Resistive AC Load Current

MOTOR SPECIFICATIONS			ATEX POWER	EXTENSION CABI	E, MAX. LENGTH & \	vo
v <sub>source</sub> /olts, AC)	ILOAD CURRENT (amps, AC)	v <sub>ac MIN</sub> (volts, AC)	Super-Trex (Cable Size)	R <sub>CABLE-PWR-EXT</sub> Ω /1000 ft	L <sub>CABLE-PWR-EXT</sub> (length, meters)	I
10 V <sub>AC</sub>	1 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	1783.9 m	
10 V <sub>AC</sub>	2 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	891.9 m	
10 V <sub>AC</sub>	3 A <sub>AC</sub>	93.5 V	4 mm <sup>2</sup>	1.41 Ω/1000FT	594.6 m	
10 V <sub>AC</sub>	4 A <sub>40</sub>	93.5 V	4 mm <sup>2</sup>	1.41 Ω/1000FT	446 m	
10 V <sub>AC</sub>	5 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	356.8 m	
10 V <sub>AC</sub>	6 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	297.3 m	
D V <sub>AC</sub>	7 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	254.8 m	
10 V <sub>AC</sub>	8 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	223 m	
10 V <sub>AC</sub>	9 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	198.2 m	
10 V <sub>AC</sub>	10 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	178.4 m	
10 V <sub>AC</sub>	11 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	162.2 m	
10 V <sub>AC</sub>	12 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	148.7 m	
10 V <sub>AC</sub>	13 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	137.2 m	
0 V <sub>AC</sub>	14 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	127.4 m	
10 V <sub>AC</sub>	15 A <sub>AC</sub>	93.5 V <sub>AC</sub>	4 mm <sup>2</sup>	1.41 Ω/1000FT	118.9 m	
B0 V <sub>AC</sub>	1 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	3729.9 m	
O V <sub>AC</sub>	2 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	1864.9 m	
30 V <sub>AC</sub>	3 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	1243.3 m	
BO V <sub>AC</sub>	4 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	932.5 m	
BO V <sub>AC</sub>	5 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	746 m	
BO V <sub>AC</sub>	6 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	621.6 m	
30 V <sub>AC</sub>	7 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	532.8 m	
30 V <sub>AC</sub>	8 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	466.2 m	
0 V <sub>AC</sub>	9 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	414.4 m	
30 V <sub>AC</sub>	10 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	373 m	
30 V <sub>AC</sub>	11 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	339.1 m	
30 V <sub>AC</sub>	12 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	310.8 m	
30 V <sub>AC</sub>	13 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	286.9 m	
30 V <sub>AC</sub>	14 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	266.4 m	
BO V <sub>AC</sub>	15 A <sub>AC</sub>	195.5 V <sub>AC</sub>	2.5 mm <sup>2</sup>	1.41 Ω/1000FT	248.7 m	

# **Installation Instruction and Care**

1. Completely uncoil power extension cable as to be used between AC power source and electrical device.

Inspect cable and connectors for damage or wear that could render the cable unsafe for hazardous locations.

Route cable to avoid contact with heavy machinery that could possible damage cable or possible be a trip hazard for workers. Cables must be integrated into a system in a way to support accessibility for regular maintenance.

- 2. Connect plug end of the power extension cable to the AC power source.
- 3. Verify AC power source is providing an electrical ground connection.

### 4. Verify electrical device is turned OFF before attaching power extension cable.

5. Connect coupler end of cable to the electrical device.

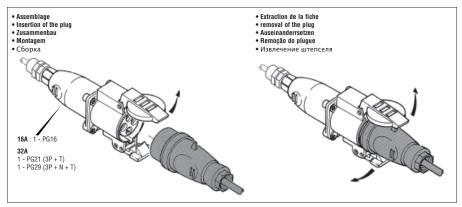
**Note:** For ATX connectors lift dust covers and insert plug into coupler until coupler dust cap latches snaps into position on plug. To break connection between coupler and plug lift dust cap to pull connectors apart.

**Note:** For CEAG connectors lift dust cover, insert plug into coupler, and rotate clockwise, to lock plug into coupler and to close power switch within the coupler. To break connection between coupler and plug lift dust cap and rotate plug counter-clockwise to pull connectors apart.

**Note:** For R.STAHL connectors insert plug into coupler and rotate outer ring clockwise to secure plug to coupler.

See illustrations.





#### **CEAG Connector Installation and Removal**

Euramco Safety has a number of optional anti-static/conductive airflow duct accessories designed explicitly for use with our Hazardous Location Fans to support various end user applications as identified in the list below.



**R. STAHL Connector Installation and Removal** 

STAHL



Insertion & Removal

Disconnect power before disassembly or cleaning. Never immerse or directly spray cable and connectors with liquids. Clean cables with commercially available biodegradable cleaning solutions. Do not use solvents containing hydrocarbons (i.e. MEK, Acetone).

There are no user serviceable parts. Contact factory for replacement part applicability.

Do not change make or model number the power extension cables for any reason!

# Cautions \_\_\_\_\_

The ATEX / IECEx Power Extension Cables are intended for use in Explosive Atmospheres in accordance with ATEX Directive 2014/34/EU. It is the user's responsibility to determine the suitability of the power extension cables for the intended purpose.

# CAUTION! THESE POWER EXTENSION CABLES ARE NOT INTENDED FOR USE IN MINES SUSCEPTIBLE TO FIREDAMP.

Do not operate if there is any physical damage to cord, plug or receptacle.

Fatal electrical shock may result if power extension cables are not grounded in compliance with electrical code.

Keep away from children.

#### ATEX / IECEx Extension Cable Rating: Ex de G D Ex IIB, Zone 1, 2, 21, & 22

Euramco Safety hereby declares that the equipment listed in this manual conforms to the relevant Essential Health and Safety Requirements of the European Machinery Directive and standards listed below.

#### Standards to which conformity is declared: See Declaration of Conformity (last page).

The ATEX / IECEx Power Extension Cables complies with International Standards EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015, & EN60079-31:2014.

#### **Category, Group and Zone Classifications**

According to ATEX Directive (2014/34/EU)

The power cables are built with three critical parts; Cable, Plug, and Couplers. The H07RN-R and SOOW cables were selected based on the need for extra heavy-duty applications. Plugs and couplers were selected based on the most commonly used European connectors for hazardous locations.

The Power Extension Cables have been certified to meet the ATEX Directive 2014/34/EU certification for Ex de G D Ex de IIB, Zone 1, 2, 21, & 22.

## Accessories \_\_\_\_\_

None

# Warranty

The ATEX / IECEx Power Extension Cables are warranted for one year form date of original purchase, to be free of defects in material and workmanship. Misuse and normal tear and wear are not covered under the warranty.

RAMFAN products are warranted against manufacture defect. Failure to properly maintain power extension cables will invalidate warranty coverage. Please visit <u>www.euramco.com</u> for warranty details.

## How to Maintain Cable

#### How to maintain cable Maintenance

- Consult the relevant national regulations to determine the type and extent of inspections.
- Adapt inspection intervals to the operating conditions.

#### At a minimum, check the following points during maintenance work on their device:

- Firm fit of the conductors.
- Damage on the enclosure; seals or surface.
- Dirt on the sleeves.
- Compliance with the permissible temperatures (according to IEC/EN 60079).
- Whether the device is used in accordance with its intended use.

#### Cleaning

- To avoid electrostatic charging, the devices located in potentially explosive areas may only be cleaned using a damp cloth.
- When cleaning with a damp cloth, use water or mild, non-abrasive, non-scratching cleaning agents.
- Do not use aggressive detergents or solvents.
- Prevent water and cleaning agents from penetrating the socket contacts.

### Disposal

- Observe national and local regulations and statutory regulation regarding disposal.
- Separate materials when sending it for recycling.
- Ensure environmentally friendly disposal of all components according to the statutory regulations.

# Declaration of Conformity \_\_\_\_\_



May 3, 2019

#### ATEX / IECEx POWER EXTENSION CABLES List of Applicable Harmonized Standards

UL Project Number 4788784924

STANDARDS	TITLES
2014/34/EU	ATEX Directive
2006/42-EC	Machinery Directive
2014/30/EU	Electromagnetic Compatibility Directive
2014/35/EU	Low Voltage Directive
EN 60079-0:2012+A11:2013	Explosive Atmospheres. General Requirements
EN 60079-1:2014	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures
EN 60079-7:2015	Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety "e"
EN 60079-31:2014	Amendment 1 – Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety "e"

Jack Limmors

# Declaration of Conformity \_\_\_\_\_

	DECLARATION OF CONFORMITY ATEX Certified Portable Fans
	is issued for ATEX certified, flame proof, increased safety, portable fans, xplosive atmospheres, manufactured by Euramco Safety, Inc. as referenced
Issue Date:	December 10, 2019
Manufacturer:	Euramco Safety, Inc. 2746 Via Orange Way Spring Valley, CA 91978 USA
Equipment Descriptions:	UB20xx8" / 20 cm ATEX Blower ExhausterEFi75xx12" / 30 cm ATEX Blower ExhausterEFi120xx16" / 40 cm ATEX Blower ExhausterEFi150xx16" / 40 cm ATEX Blower Exhauster
Hazardous Location Rating:	⟨Ēx⟩ II 2 G Ex db eb IIB T6 Gb T6, non-mining gases up to 85°C
Notified Body:	UL International DEMKO A/S, Notified Body Number 0539 Borupvang 5A 2750 Ballerup, Denmark
Certification Number: Notification Number: Standards to which	DEMKO 09 ATEX 0926969X Rev. 3 10 ATEX Q137286 Rev. 2
Certificate Applies:	EN 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015+A1:2018 EN 14986:2017
Self-Declared Compliance Directives:	2006/42/EC – Machinery Directive 2014/35/EU – Low Voltage Directive 2014/30/EU – EMC Directive 2011/65/EU – RoHS – Reduction of Hazardous Substances Directive
requirements of ATEX Council	aclares that equipment described above conforms with the protection Directive 2014/34/EU on the approximation of the laws of the Member States stection Systems Intended for use in Potentially Explosive Atmospheres.
Euramco (Wayne All	en



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