

## Technical Pages

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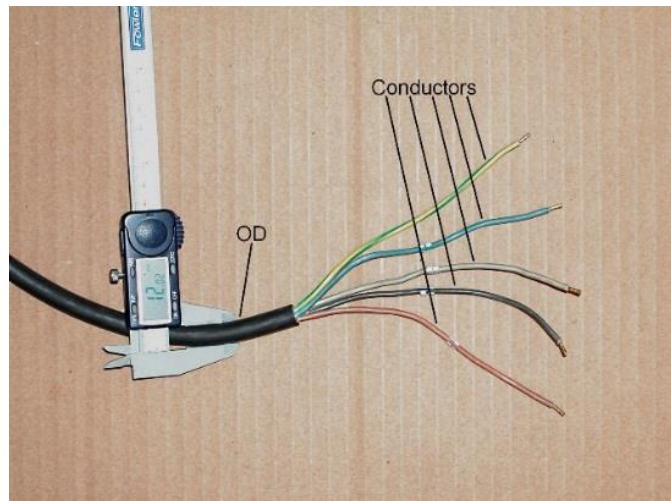
### ABSTRACT

Power cables are frequently modified or shipped in non-standard configuration to fit customer needs. Therefore it is important to determine exactly which cable is used because once new cable is cut, it is non-refundable. Cable sizes are given as (# of conductors) G (size of conductors in sq.mm) for non-FM, and (# of conductors) x (size of conductors in sq.mm) for FM. E.g. 7G1.5, and 7x1.5. For convenience, “x” shall be used below instead of G.

### YOU WILL NEED

-Measuring Device  
(ruler, calipers, tape measure)

- Determine the color of the cable jacket. Yellow cables are for FM-approved explosion-proof pumps, and black cables are used for standard pumps.
- Measure the outside jacket diameter (OD) of the cable.
- Count the number of conductors to verify the selection made.
- Check the Power Cable ID Chart on the following page for the measured diameter under the “Jacket Dia.” section. This will give you the cable size which HOMA defines as the number of conductors followed by the area of the conductors.
- **REMEMBER:** before placing your order, measure the cable length to be replaced. The standard length is 10 meters, or about 30 feet. Please specify if more is needed.



### WATER DAMAGE

When measuring a water-damaged cable, keep in mind that it may have swelled and expanded. If this is the case, the best way to determine the cable size is to measure the diameter of the sheath of one conductor, the “Conductor Sheath Diameter.” To convert millimeters to inches, multiply by .0394.

Water intrusion is identified by:

- Cable jacket is swollen
- Cable jacket has spongy feel
- Interior of cable jacket has a white, pasty texture.

## Power Cable ID Chart

### Black Cables (non-FM)

<b>Cable Size</b>	<b>Part Number</b>	<b>Jacket Diameter (mm)</b>	<b>Jacket Diameter (in)</b>	<b>Conductor Sheath Diameter (in) approx.</b>
4 x 1.5	1041541	11	0.43	.115 - .125
5 x 1.5	1041551	12	0.47	.115 - .125
7 x 1.5 (Old)	1042871	13	0.5	.115 - .125
7 x 1.5	1041871	16	0.62	.115 - .125
7 x 2.5	1041872	18	0.7	.145 - .152
7 x 4	1041874	22	0.86	.180 - .188
10 x 1.5	1041916	19	0.74	.115 - .125
10 x 2.5	1041926	21	0.82	.145 - .152
10 x 4	1041940	24	0.94	.180 - .188
5 x 6	1041561	19	0.74	.205 - .215
4 x 2.5	1041542	13	0.5	.145 - .152
4 x 4	1041745	16	0.6	.180 - .188
4 x 6	1041746	18	0.7	.205 - .215
4 x 10	1041411	23	0.9	.262 - .270
4 x 16	1041416	28	1.09	.308-.315
4 x 25	1041426	32	1.25	.330-.345

### Yellow Cables (FM)

<b>Cable Size</b>	<b>Part Number</b>	<b>Jacket Diameter (mm)</b>	<b>Jacket Diameter (in)</b>	<b>Conductor Sheath Diameter (in) approx.</b>
4 x 1.5	1046041	13	0.5	.115 - .125
5 x 1.5	1046050	15	0.55	.115 - .125
7 x 1.5	1046071	17	0.66	.115 - .125
7 x 2.5	1046072	19	0.74	.145 - .152
10 x 1.5	1046115	19	0.74	.115 - .125
5 x 6	1046056	22	0.85	.205 - .215
3x6 + 3x1.5	1046036	21	0.82	.205 - .215 & .115 - .125
4 x 2.5	1046042	17	0.67	.145 - .152
4 x 4	1046044	18	0.71	.180 - .188
4 x 6	1046046	20	0.77	.205 - .215
4 x 10	1046047	23	0.9	.262 - .270
4 x 16	1046048	29	1.14	.308-.315
4 x 25	1046080	34	1.3	.330-.345
4 x 35	1046035	35	1.35	.410-.418

Note: 3 x 6 yellow cable has three 6 sq.mm conductors and three 1.5 sq.mm conductors

Information presented here may vary slightly from catalog data.

Catalog data is for conduit sizing