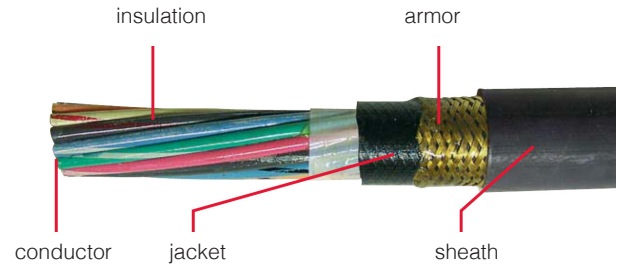


SPECIFICATION  
**HW278**

**MULTI-CONDUCTOR  
CONTROL CABLE**

**0.6/1kV Armored & Sheathed 110°C  
Gexol® Insulation  
Made in the USA**



Catalog Number	Size AWG	Number of Conductors	Nominal Diameter (inches)	Weight (lbs/Mft.)	Ampacity		
					110°C	100°C	95°C
HW278 01607	16	7	0.656	330	12	11	11
HW278 01608	16	8	0.712	340	12	11	11
HW278 01610	16	10	0.812	445	9	8	11
HW278 01616	16	16	0.942	602	9	8	11
HW278 01620	16	20	1.017	724	9	8	11
HW278 01624	16	24	1.146	809	8	7	11
HW278 01637	16	37	1.271	989	6	6	8
HW278 01644	16	44	1.396	1175	66	6	8
HW278 01660	16	60	1.521	1496	6	6	8
HW278 01691	16	91	1.833	2181	6	6	8
HW278 01406	14	6	0.720	335	21	20	18
HW278 01407	14	7	0.720	377	19	18	15
HW278 01410	14	10	0.914	515	14	13	15
HW278 01412	14	12	0.936	558	14	13	15
HW278 01414	14	14	0.972	665	14	13	15
HW278 01420	14	20	1.139	876	14	13	15
HW278 01424	14	24	1.236	1132	12	11	15
HW278 01430	14	30	1.294	1180	12	11	13
HW278 01437	14	37	1.376	1405	11	10	13
HW278 01444	14	44	1.516	1477	10	9	11
HW278 01491	14	91	2.060	2855	10	9	11
HW278 01206	12	6	0.792	500	27	25	22
HW278 01210	12	10	0.994	629	17	16	19
HW278 01220	12	20	1.245	1055	17	16	19
HW278 01224	12	24	1.356	1468	15	14	19
HW278 01237	12	37	1.516	1677	13	12	16

\* Cable diameters shown as nominal are subject to a ±5% manufacturing tolerance.

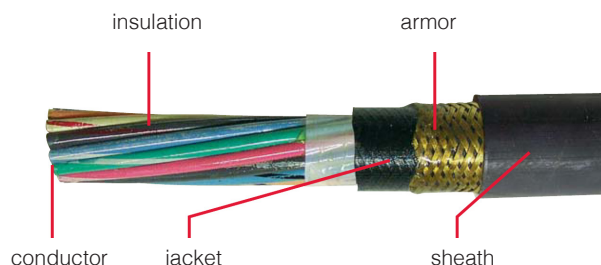
See page 5 for Stranding Profile and Hawke Gland Info

MULTI  
CONDUCTOR



## MULTI-CONDUCTOR CONTROL CABLE

**0.6/1kV Armored & Sheathed 110°C  
Gexol® Insulation  
Made in the USA**



### APPLICATION:

Designed and constructed for the demanding environments of offshore drilling and petroleum facilities located throughout the world.

### CONDUCTOR:

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11.

### INSULATION:

Flame Retardant Cross-linked Polyolefin, meeting the requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA C22.2 No. 245. *Color Code:* IEEE1580 Table 22. *Sizes 1/0 and Larger:* Black with Phase ID Imprint.

### JACKET:

Black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA C22.2 No. 245 and IEEE 1580.

### ARMOR:

Basket weave wire armor per IEEE 1580 and UL 1309/CSA C22.2 No. 245. Bronze standard. Tinned copper available by request.

### SHEATH:

A black, arctic grade, flame retardant, oil abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA C22.2 No. 245 and IEEE 1580.

### RATINGS & APPROVALS:

- American Bureau of Shipping (ABS)

- Transport Canada
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS)
- NVE 95/1696, FAL
- UL listed as Marine Shipboard Cable
- United States Coast Guard
- CSA listed as Marine Shipboard Cable

### FEATURES:

- High strand count conductors make this product extremely flexible, easier to install and more resistant to vibration than Type MC, IEC spec or commercial cables.
- Lower dielectric constant and higher insulation resistance reduces electrical losses.
- Excellent resistance to moisture produces stable electrical properties throughout the life of the cable.
- In fire conditions, non chlorinated flame retardant system produces less toxic and less corrosive gasses.
- Dual certified IEEE 1580 Type P and UL 1309/CSA C22.2 No. 245 Type X110.
- Highest ampacity ratings: ABS 100°C, DNV 95°C, LRS 95°C, Transport Canada 95°C
- Severe cold durability: exceeds CSA cold bend/cold impact (-40/-35° C)
- Flame retardant: IEC 60332-3 Category A and IEEE 1202
- Suitable for use in Class I, Division 1 and Zone 1 environments.
- Braided armor of bronze. Tinned Copper available by request.

### ABBREVIATED IEEE1580 TABLE 22 (Full chart on page 48):

Conductor Number	Base Color	Tracer Color	Tracer Color	Conductor Number	Base Color	Tracer Color	Tracer Color
1	Black	-	-	20	Red	Green	-
2	White	-	-	21	Orange	Green	-
3	Red	-	-	22	Black	White	Red
4	Green	-	-	23	White	Black	Red
5	Orange	-	-	24	Red	Black	White
6	Blue	-	-	25	Green	Black	White
7	White	Black	-	26	Orange	Black	White
8	Red	Black	-	27	Blue	Black	White
9	Green	Black	-	28	Black	Red	Green
10	Orange	Black	-	29	White	Red	Green
11	Blue	Black	-	30	Red	Black	Green
12	Black	White	-	31	Green	Black	Orange
13	Red	White	-	32	Orange	Black	Green
14	Green	White	-	33	Blue	White	Orange
15	Blue	White	-	34	Black	White	Orange
16	Black	Red	-	35	White	Red	Orange
17	White	Red	-	36	Orange	White	Blue
18	Orange	Red	-	37	White	Red	Blue
19	Blue	Red	-	-	-	-	-



MADE IN AMERICA

1-(800)-HOUWIRE  
www.houwire.com

Type P Catalog. All data subject to change without notice.



MULTI  
CONDUCTOR