

SPECIFICATION
HW290

HL Listed CIR® Control Cable*
Multi-Conductor + Ground
0.6/1kV 90°C Gexol® Insulation

Application

Designed and constructed to be a flexible alternative to Type MC cable where crush and impact protection in arctic conditions is required.

Features

- Complies with the requirements for TC-ER-HL* per UL 2225
- Gas & vapor tight – impervious to water and air
- Smaller bend radius (up to 40% smaller) than Type MC
- Reduced tray fill (up to 35% less) compared to Type MC
- Considerably more flexible than Type MC
- Brittle point as per ASTM D 746-07 exceeds -65°C for Jacket and -75°C for Insulation
- Exceeds CSA cold bend / cold impact (-40°C / -35°C)

Power & Control Cable	
Color Legend	
6 AWG and smaller = colored insulation 4 AWG and larger = print	
Conductor #	Color
1	Black
2	Red
3	Blue
4	Orange

+ For more than 4 conductors, see reference chart on page 10.

Conductor

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

Insulation

Gexol cross-linked flame retardant polyolefin, meets requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA 245. 600V/IEC 1000V.

Grounding Conductor

Soft annealed, flexible stranded, insulated, tinned copper sized in accordance with UL 1277.

Jacket

A black, flame retardant, oil, abrasion, chemical and sunlight resistant thermoset compound meeting UL 1309/CSA 245 and IEEE 1580.

Ratings and Approvals

- 90°C temperature rating
- UL Listed as Marine Shipboard Cable (E111461)
- UL Listed as Type TC-ER
- UL Listed as Type TC-ER-HL*
- American Bureau of Shipping (ABS) (99-BT5905-X)
- Flame Retardant – IEEE 1202
- Suitable for use in Class I, Div 2 & Zone 2 environments
- Suitable for use in Class I, Div 1 & Zone 1 environments*

*Cables up to 1" in OD



HWC Part #	Size (AWG)	Size (mm ²)	Number of Conductors	Grounding Conductor (AWG/kcmil)	Nominal Diameter (inches)	Weight (lbs./1000 ft.)	90°C NEC Ampacity	75°C NEC Ampacity	DC Resistance at 25°C (Ohms/1000 ft.)	AC Resistance at 90°C, 60Hz (Ohms/1000 ft.)	Voltage Drop (Volts/Amp/1000 ft.)	HL Listed
HW29001402	14	2.1	2	14	0.500	129	15	15	2.91	3.64	5.069	•
HW29001403	14	2.1	3	14	0.532	147	15	15	2.91	3.64	5.069	•
HW29001404	14	2.1	4	14	0.572	174	15	15	2.91	3.64	5.072	•
HW29001405	14	2.1	5	14	0.673	206	15	15	2.91	3.64	5.072	•
HW29001407	14	2.1	7	14	0.783	249	15	14	2.91	3.64	5.072	•
HW29001409	14	2.1	9	14	0.813	289	15	14	2.91	3.64	5.072	•
HW29001412	14	2.1	12	14	0.851	426	12	10	3.00	3.75	5.224	•
HW29001419	14	2.1	19	14	1.090	677	12	10	3.00	3.75	5.224	•
HW29001437	14	2.1	37	14	1.455	1138	10	8	3.00	3.75	5.224	•
HW29001202	12	3.3	2	12	0.539	163	20	20	1.83	2.28	3.195	•
HW29001203	12	3.3	3	12	0.581	192	20	20	1.83	2.28	3.195	•
HW29001204	12	3.3	4	12	0.685	227	20	20	1.83	2.28	3.198	•
HW29001205	12	3.3	5	12	0.740	305	20	20	1.83	2.28	3.198	•
HW29001207	12	3.3	7	12	0.865	374	20	17	1.83	2.28	3.198	•
HW29001209	12	3.3	9	12	0.910	435	20	17	1.83	2.28	3.198	•
HW29001212	12	3.3	12	12	0.935	576	15	12	1.88	2.35	3.294	•
HW29001219	12	3.3	19	12	1.180	1007	15	12	1.88	2.35	3.294	•
HW29001237	12	3.3	37	12	1.500	1739	12	10	1.88	2.35	2.028	•
HW29001002	10	5.2	2	10	0.582	204	30	30	1.15	2.35	2.028	•
HW29001003	10	5.2	3	10	0.685	243	30	30	1.15	1.44	2.031	•
HW29001004	10	5.2	4	10	0.740	335	30	28	1.15	1.44	2.031	•
HW29001005	10	5.2	5	10	0.800	397	30	28	1.15	1.44	2.031	•
HW29001007	10	5.2	7	10	0.930	488	28	24	1.15	1.44	2.031	•
HW29001009	10	5.2	9	10	1.060	575	28	24	1.15	1.44	2.031	•
HW29001012	10	5.2	12	10	1.135	980	20	17	1.18	1.48	2.092	•

Ampacities are based on Table 310.16 of the National Electrical Code (NEC) for conductors rated 90°C, in a multi-conductor cable, at an ambient temperature of 30°C. The 75°C column is provided for additional information. The ampacities shown apply to open runs of cable, installation in any approved raceway. Derating for more than three current carrying conductors within the cable is in accordance with NEC Table 310.15 (B) (2) (a). Ampacities shown also apply to cables installed in cable tray in accordance with NEC Section 392.11.