TRANSPOWER Head-End Power (HEP) Cables

Single Conductor, 4/0 AWG 1000 V or Three Conductor, 10 AWG 600 V

Product Construction

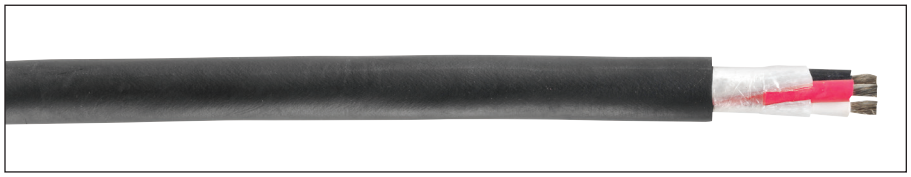
Single Conductor:
- 4/0 AWG 5320/34 Soft Bare Copper

Insulation:
- Chlorinated Polyethylene (CPE)

Jacket:
- Reinforced Chlorinated Polyethylene (CPE) – Black

Ampacity:
- 400 amps @ 30°C

Print:
- GENERAL CABLE® (LI) 1000 VOLT TRANSPOWER 4/0 AWG



Product Construction

Three Conductors:
- 10 AWG 259/34 Soft Tinned Copper

Insulation:
- Ethylene Propylene Diene Monomer (EPDM)

Jacket:
- Chlorinated Polyethylene (CPE) – Black

Ampacity:
- 40 amps @ 30°C

Color Code:
- Black, White, Red

Print:
- GENERAL CABLE® (LI) 600 VOLT TRANSPOWER 3/C 10 AWG

Applications:
- Head-End Power cable used in jumper assemblies locomotive-to-locomotive, locomotive-to-car and car-to-car for transmission of 480 V, 3 phase 50/60 Hz
- Designed for heavy-duty service where severe flexing is encountered

Features:
- 4/0 AWG is rated at 1000 V
- 10 AWG, 3 conductor is rated at 600 V
- Normal operating temperature -55°C to 90°C
- Jacket will not melt during 375°F molding operation
- Excellent flexibility; withstands continuous vibrations
- Outstanding resistance to moisture, oils and fluids, abrasion, tearing, compression, ozone, sunlight, flame and heat
- Minimum bend radius:
  1/C 4/0 AWG: 7.2”
  3/C 10 AWG: 5.5”

Industry Compliances:
- Amtrak Specification D-77-24
- Rope-Lay with bunch-stranded members per ASTM B172
- Soft annealed bare copper per ASTM B3
- Soft annealed tin copper per ASTM B33

TRANSPOWER HEAD-END POWER (HEP) CABLES

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR (AWG) SIZE AND STRANDING		NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL CABLE DIAMETER		NET CABLE WEIGHT		AMPACITY (FREE AIR 30°C AMBIENT)
				MILS	mm	MILS	mm	INCHES	mm	LBS/ 1000'	kg/ km	
87040	1	4/0	5320/34 SBC	60	1.52	85	2.16	0.900	22.86	961	1430	400*
87010	3	10	259/34 STC	45	1.14	95	2.41	0.685	17.40	314	467	40*

* Refer to NEC 310.15(B)(2) for the ampacity correction factors where the ambient temperature is other than 30°C (86°F).

General Cable