



H07BN4-F & UL/CSA 1000V 90°C Torsion Resistant Cable

» Application

These cables with increased tolerance to torsion application, improved behaviour against abrasion and extended temperature, UV and ozone resistant are specially designed for wind turbines.

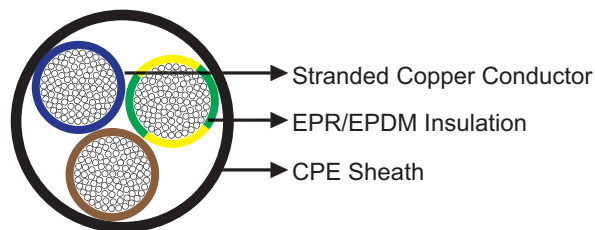
» Standards

HD 22.12

UL/CSA 22.2

UL 758

» Construction



Conductor: Flexible annealed bare copper, class 5 according to IEC/EN 60228.

Insulation: Special cross-linked EI7 rubber for high temperatures (EPDM class 28). Special thermoset EPR for high temperature can be offered upon request.

Sheath: High mechanical performance special cross-linked EM7 rubber (CPE class 42). Special thermoset CPE improved for low temperature behaviour (-40°C) can be offered upon request.

» Technical Data

Rated Voltage U ₀ /U (U _m)	1000V
Operating Temperatures	-40°C~+90°C
Minimum Bending Radius	flexing: 6×OD; fixed: 4×OD
Torsion Application	+/-150°/m
Maximum Permissible Tensile Load	15 N/mm ²
Short-circuit Temperature	250°C
Flame Retardant	EN 50265-1/EN 50265-2-1/IEC 60332-1
Oil Resistant	Yes



Power Cable

Ozone Resistant	Yes
UV Resistant	Yes
Water Resistant	Yes
Impact Resistant	Yes

» Dimensions and Weight

Construction	Nominal Overall Diameter	Nominal Weight
No. of cores×mm ²	mm	kg/km
1×120(4/0 AWG)	25.5	1540
1×150(250MCM)	28.8	1810
1×185(350MCM)	31.4	2210
1×240(450MCM)	33.8	2750
1×300(550MCM)	37.7	3520
1×400(750MCM)	41.4	4510
1×50(1 AWG)	18.7	730
1×95(3/0 AWG)	23.0	1220
3×120(4/0 AWG)	56.0	5200
3×150(250MCM)	61.5	6400
3×240(450MCM)	72.0	9780
3×25(4 AWG)	30.0	1420
3×35(2 AWG)	35.3	1850
3×50(1 AWG)	39.8	2480
3×70(2/0 AWG)	43.8	3180
3×95(3/0 AWG)	49.0	4260
4G50(1 AWG)	42.5	3150
4G70(2/0 AWG)	48.2	4240
4G95(3/0 AWG)	53.5	5480

G: with green-yellow earth core

×: without green-yellow earth core