

PowrServ® OH Duplex Neutral-Supported Cable Type NS75/NS90

600 V, Aluminum Conductor, XLPE Insulation, ACSR Neutral



DUPLEX TYPE NS75/NS90 – XLPE – ACSR FULL SIZE NEUTRAL – 600 VOLTS

PHASE CONDUCTORS					ACSR COMPACT BARE NEUTRAL				OVERALL			
SIZE (AWG)	NO. OF WIRES	COND. O.D. (mm)	MIN. INS. THKN. (mm)	NOM. INS. O.D. (mm)	SIZE (AWG)	NO. OF WIRES (A1/S1A)	RATED STRENGTH kN (1)	COND. O.D. (mm)	EFFECTIVE O.D. (mm)	APPROX. WEIGHT (kg/km)	AMPACITY (2)	
6	7	4.29	1.04	6.63	6	6/1	5.18	5.0	12	111	95	
4	7	5.41	1.04	7.75	4	6/1	8.14	6.4	14	169	125	
2	7	6.88	1.04	9.14	2	6/1	12.4	8.1	17	260	165	
1/0	7	8.53	1.37	11.6	1/0	6/1	18.9	10.1	22	412	220	

(1) Rated strengths are based on CAN/CSA C49.2 standard calculation method.

(2) Ampacity rating is per 2015 CEC Table 36A, at 30°C ambient, with sun-radiated heat energy of 1025 W/m², a wind speed of 0.6 m/s, and maximum conductor temperature of 90°C.

Dimensions and weights not designated minimum or maximum are nominal values and subject to manufacturing tolerances. In this context, weight means mass.

Product Construction:

Complete Cable:

Duplex NS75/NS90 Service Drop Cable consists of one compact aluminum conductor insulated with Cross-linked Polyethylene (XLPE), twisted around a bare compact ACSR stranded neutral conductor, which serves as a supporting neutral.

Triplex NS75/NS90 consists of two insulated conductors around a bare neutral.

Quadruplex NS75/NS90 consists of three insulated conductors around a bare neutral.

NS75/NS90 Service Drop Cable is CSA Certified and meets the requirements of CSA C22.2 No. 129 and CAN/CSA C61089 standards, as applicable.

Insulated Conductors:

The all-aluminum stranded conductors are Class A smooth body compact 1350-H19 (full hard) aluminum.

Insulation:

The standard product is a black, sunlight-resistant, -40°C rated extruded Cross-linked Polyethylene (XLPE).

Bare Neutral:

The aluminum conductor steel reinforced (ACSR) stranded neutral conductors are Class A smooth body compact stranded. The direction of lay of the outer layer is right-hand. ACSR neutral conductors 266.8 kcmil and larger are concentric round conductors per CAN/CSA C61089.

Phase Identification:

Phase identification is provided by means of white print legend markings on one of the black coloured phase conductors and three longitudinal red stripes on the second black coloured phase conductor. Quadruplex cables would be provided with three blue stripes on the third black coloured phase conductor. All cables provided with sequential print marking.