

Technical Specification

Cable Type: High Voltage Single Conductor Cables
Type 89/154 KV YE₃S(AL)E Stranded Copper Conductor, XLPE Insulation, PE Jacket Served Copper Wire Shield

Western Wire Series: WPCW

Revision: 02/02 Date: 5 December 2002



Single Conductor High-Voltage Cables Type 89/154 KV YE₃S(AL)E, conforming to IEC 60840. Stranded copper conductor, inner semi-conductive layer, XLPE insulation, outer semi-conductive layer, swellable semi-conductive tape, served round annealed copper wire shield, bonded aluminum moisture barrier and PE outer jacket, for high-safety power supply in permanent underground and outdoor installations.

Cable Construction

Conductor	Stranded annealed bare copper conductors, conforming to ASTM B3
Inner semi-conductive layer	Conductive compound.
Insulation	XLPE compound.
Outer semi-conductive layer	Conductive compound.
Tape wrap	Swellable semi-conductive tape.
Overall shield	Served round annealed bare copper wires + copper tape.
Tape wrap	Semi-conductive binder tape.
Moisture barrier	Bonded aluminum tape.
Outer jacket	Heavy duty PE compound, colored black.
Surface marking	Per request.

Electrical Parameters

Maximum Operating Temperature	90C
Maximum short circuit temperature	250C for 5 S max.
Voltage Rating	89/154 KV

WW P/N	Construction and Cross Section		DC Resistance @20C	Overall Diameter	Total Weight	Inductance	Capacitance	Ampacity
	mm ²							
	Nominal		Max.	Nom.	Nom.	Nom.	Nom.	
	Cond.	Shield						Underground @ 20C
WPCV1X630	630	35	0.0283	97	14300	0.689	0.161	1075
WPCV1X800	800	35	0.0221	102	16100	0.678	0.174	1215
WPCV1X1000	1000	35	0.0176	106	18100	0.663	0.186	1354