

Technical Specification

Cable Type: Medium Voltage Single Conductor Cables
Type 20.3/35 KV 2XSY Stranded Copper Conductor, XLPE Insulation, PVC Jacket Served Copper Wire Shield

Western Wire Series: WPCP

Revision: 02/02 Date: 5 December 2002



Single Conductor Medium-Voltage Cables Type 20.3/35 KV 2XSY, conforming to IEC 60502. Stranded copper conductor, inner semi-conductive layer, XLPE insulation, outer semi-conductive layer, served round annealed copper wire shield, tape binder and PVC 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	Conductive tape.
Overall shield	Served round annealed bare copper wires + copper tape.
Tape wrap	Plastic binder tape.
Outer jacket	PVC compound, colored red.
Surface marking	Per request.

Electrical Parameters

Maximum Operating Temperature	90C
Maximum short circuit temperature	250C for 5 S max.
Voltage Rating	20.3/35 KV

WW P/N	Construction and Cross Section		DC Resistance @20C	Overall Diameter	Total Weight	Inductance		Cap.	Ampacity			
	mm ²					Ohm/Km	mm		Kg/Km	mH/Km		μF/Km
	Nominal		Max.	Nom.	Nom.			Nom.		Nom.	Nom.	
	Cond.	Shield				Underground @ 20C			In Air @ 30C			
WPCN1X35	35	16	0.524	35.0	1328	0.75	0.50	0.10	210	185	230	193
WPCN1X50	50	16	0.387	36.5	1532	0.73	0.48	0.11	247	219	275	233
WPCN1X70	70	16	0.268	38.5	1790	0.71	0.46	0.13	301	269	344	291
WPCN1X95	95	16	0.193	40.5	2106	0.67	0.44	0.14	358	320	419	352
WPCN1X120	120	16	0.153	42.0	2393	0.66	0.42	0.16	403	365	480	404
WPCN1X150	150	16	0.124	43.9	2832	0.65	0.41	0.17	440	403	539	459
WPCN1X185	185	25	0.0991	45.8	3219	0.63	0.37	0.18	492	456	611	528
WPCN1X240	240	25	0.0754	48.3	3835	0.61	0.37	0.19	561	529	714	619
WPCN1X300	300	25	0.0601	51.0	4492	0.59	0.35	0.20	621	591	811	708
WPCN1X400	400	25	0.0470	55.0	5650	0.56	0.34	0.21	671	663	899	811