

### Technical Specification

**Cable Type: Medium Voltage Single Conductor Cables**  
**Type 3.5/6 KV 2XSY Stranded Copper Conductor, XLPE Insulation, PVC Jacket Served Copper Wire Shield**

**Western Wire Series: WPCK**

**Revision: 02/02 Date: 5 December 2002**



Single Conductor Medium-Voltage Cables Type 3.5/6 KV 2XSY, conforming to IEC 60502 and BS 6622. 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	3.5/6 KV

WW P/N	Construction and Cross Section		DC Resistance @20C	Overall Diameter	Total Weight	Inductance		Cap.	Ampacity			
	mm <sup>2</sup>					Ohm/Km	mm		Kg/Km	mH/Km		µF/Km
	Nominal		Max.	Nom.	Nom.			Nom.		Nom.	Nom.	
	Cond.	Shield				Underground @ 20C			In Air @ 30C			
WPCK1X25	25	16	0.727	20.2	639	0.60	0.44	0.23	181	151	178	161
WPCK1X35	35	16	0.524	21.5	752	0.58	0.43	0.26	201	185	230	193
WPCK1X50	50	16	0.387	22.7	913	0.55	0.41	0.29	240	219	275	238
WPCK1X70	70	16	0.268	24.6	1130	0.53	0.39	0.33	301	269	344	301
WPCK1X95	95	16	0.193	26.4	1388	0.52	0.37	0.38	358	328	429	352
WPCK1X120	120	16	0.153	28.0	1643	0.51	0.35	0.42	423	365	490	414
WPCK1X150	150	16	0.124	29.7	2026	0.50	0.33	0.44	469	413	549	469
WPCK1X185	185	25	0.0991	31.7	2388	0.49	0.32	0.49	541	466	631	539
WPCK1X240	240	25	0.0754	34.3	2940	0.48	0.31	0.54	632	539	734	633
WPCK1X300	300	25	0.0601	37.3	3559	0.48	0.30	0.56	721	611	841	729
WPCK1X400	400	25	0.0470	41.6	4660	0.47	0.29	0.58	780	683	923	832