

Technical Specification

Cable Type: Medium Voltage Single Conductor Cables
Type 8.7/15 KV 2XS Y Stranded Copper Conductor, XLPE Insulation, PVC Jacket Served Copper Wire Shield

Western Wire Series: WPCM

Revision: 02/02 Date: 5 December 2002



Single Conductor Medium-Voltage Cables Type 8.7/15 KV 2XS Y, 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	8.7/15 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	Amperes
	Nominal		Max.	Nom.	Nom.			Nom.				Nom.
	Cond.	Shield				Underground @ 20C			In Air @ 30C			
WPCM1X25	25	16	0.727	24.2	767	0.77	0.46	0.16	178	156	190	161
WPCM1X35	35	16	0.524	25.5	887	0.74	0.44	0.17	210	185	230	193
WPCM1X50	50	16	0.387	26.7	1055	0.71	0.43	0.18	247	219	275	233
WPCM1X70	70	16	0.268	28.7	1285	0.67	0.41	0.20	301	269	344	291
WPCM1X95	95	16	0.193	30.4	1552	0.64	0.39	0.23	358	320	419	352
WPCM1X120	120	16	0.153	32.3	1832	0.61	0.37	0.25	403	365	480	404
WPCM1X150	150	16	0.124	34.0	2225	0.59	0.36	0.27	440	403	539	459
WPCM1X185	185	25	0.0991	36.0	2598	0.57	0.34	0.30	492	456	611	528
WPCM1X240	240	25	0.0754	38.8	3172	0.55	0.32	0.33	561	529	714	619
WPCM1X300	300	25	0.0601	41.0	3772	0.53	0.31	0.37	621	591	811	708
WPCM1X400	400	25	0.0470	45.0	4890	0.51	0.29	0.41	671	663	899	811