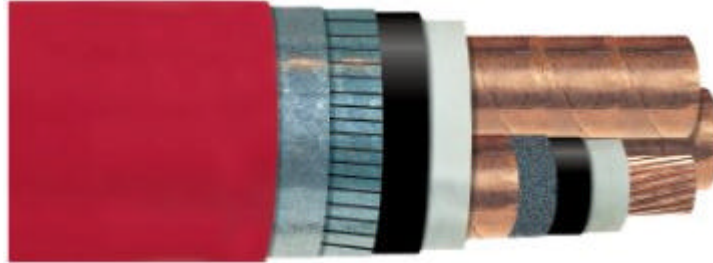


Technical Specification

**Cable Type: Medium Voltage Three Conductor Cables
Type 12/20 KV 2XSEYFGbY Stranded Copper Conductor, XLPE Insulation, PVC Jacket Ind. Copper Tape Shield,
Overall Galvanized Steel Armor**

Western Wire Series: WPCT

Revision: 02/02 Date: 6 December 2002



Three Conductor Medium-Voltage Cables Type 12/20 KV 2XSEYFGbY, conforming to VDE 0273, IEC 60502 and BS 6622. Each wire: Stranded copper conductors, inner semi-conductive layer, XLPE insulation, outer semi-conductive layer, copper tape wire shield, tape binder and PVC jacket.

Overall filling layer, PVC inner jacket, galvanized flat steel wire + steel tape armor and PVC outer jacket.

Suitable for high-safety power supply in permanent underground and outdoor installations.

Cable Construction

Conductor	Stranded annealed bare copper conductors, conforming to ASTM B3
Individual wires	
Inner semi-conductive layer	Conductive compound.
Insulation	XLPE compound.
Outer semi-conductive layer	Conductive compound.
Tape wrap	Conductive tape.
Individual shield	Copper tape wrap.
Cable	
Cabling	Three individually shielded wires cabled together.
Filler	Filling layer.
Inner jacket	Black PVC compound.
First armor	Flat galvanized served steel wires
Second armor	Helical galvanized steel 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	12/20 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	
	Nom.		Max.	Nom.	Nom.	Nom.	Nom.	Nom.	
	Cond.	Shield						Underground @ 20C	In Air @ 30C
WPCT3X35	35	16	0.524	62.1	5883	0.39	0.17	174	169
WPCT3X50	50	16	0.387	65.7	6786	0.37	0.19	209	203
WPCT3X70	70	16	0.268	70.2	7923	0.35	0.21	253	255
WPCT3X95	95	16	0.193	74.4	9183	0.34	0.23	299	311
WPCT3X120	120	16	0.153	78.2	10410	0.33	0.25	341	358
WPCT3X150	150	16	0.124	82.2	11810	0.32	0.27	391	411
WPCT3X185	185	25	0.0991	87.0	13508	0.31	0.29	441	468
WPCT3X240	240	25	0.0754	93.8	16195	0.30	0.30	510	555
WPCT3X300	300	25	0.0601	99.5	18735	0.29	0.32	572	636
WPCT3X400	400	25	0.0470	105.4	21452	0.28	0.34	644	731