

**POWER CABLES WITH XLPE INSULATED FOR RATED VOLTAGE OF 12/20(24)**

**IEC 60502-2**

MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE , COPPER CONDUCTOR WITH COPPER WIRE SHIELD



- CONDUCTOR : Compact round stranded annealed copper
  - CONDUCTOR SCREEN : Semiconducting cross-linked polyethylene
  - INSULATION : Cross-linked polyethylene ( XLPE )
  - INSULATION SCREEN : Semiconducting cross-linked polyethylene
  - METALLIC SHIELD : Annealed copper wire with copper contact tape
  - SEPARATOR TAPE : Spunbond tape (Optional : water blocking tape)
  - OUTER SHEATH : Black polyethylene ( Optional : Polyvinyl chloride (S12) )
- CLASSIFICATION : Maximum Conductor Temperature  
90 °C (Normal operation)  
Maximum Conductor Temperature  
250 °C (Short - circuit at 5 s maximum duration)
  - REFERENCE : IEC 60228 & IEC 60502-2
  - AC TESR VOLTAGE : 42 Kv. For 5 minutes

SIZE core x mm <sup>2</sup>	Nominal section area mm <sup>2</sup>	Minimum number of wire No.	Diameter of conductor (Approx) mm	Thickness of conductor screen (Approx) mm	Thickness of insulation mm	Diameter over insulation (Approx) mm	Thickness of insulation screen (Approx) mm	Copper wire shield		Thickness of sheath mm	Overall diameter (Approx) mm	Maximum DC conductor resistance at 20 °C <b>Ω/Km</b>	Cable weight (Approx) Kg/Km	Standard packing m/R
								Number of wire	Diameter of wire mm					
1 x 35	35	6	6.95	0.5	5.5	19.5	0.5	20	0.8	1.8	28	0.5240	860	500
1 x 50	50	6	8.33	0.5	5.5	21.0	0.5	20	0.8	1.8	30	0.3870	1040	500
1 x 70	70	12	9.73	0.5	5.5	22.5	0.5	20	0.8	1.9	32	0.2680	1260	500
1 x 95	95	15	11.45	0.5	5.5	24.0	0.5	20	0.8	1.9	33	0.1930	1550	500
1 x 120	120	18	12.95	0.5	5.5	25.5	0.5	20	0.8	2.0	34	0.1530	1820	500
1 x 150	150	18	14.27	0.5	5.5	27.0	0.5	25	0.9	2.1	37	0.1240	2190	500
1 x 185	185	30	15.98	0.5	5.5	28.5	0.5	30	1.03	2.1	38	0.0991	2560	500
1 x 240	240	34	18.47	0.5	5.5	31.0	0.5	30	1.03	2.2	42	0.0754	3,230	500
1 x 300	300	53	20.68	0.5	5.5	33.5	0.5	30	1.03	2.3	45	0.0601	3,850	500
1 x 400	400	53	23.39	0.5	5.5	36.5	0.5	30	1.03	2.4	48	0.0470	4870	500
1 x 500	500	53	26.67	0.5	5.5	40.0	0.5	30	1.03	2.6	52	0.0366	5890	250

C:Packing in coil.  
R:Packing in drum.

