

127/230 (245) kV COPPER CONDUCTOR WITH LEAD SHEATH
IEC 62067 STANDARD

APPLICATION :

Preferably used for urban networks.
Suitable for use in duct, trays and direct burial in ground.

Advantage :

Perfect radial moisture barrier.
Excellent sulfide, oil and chemical resistance.

Max. Conductor Temperature :

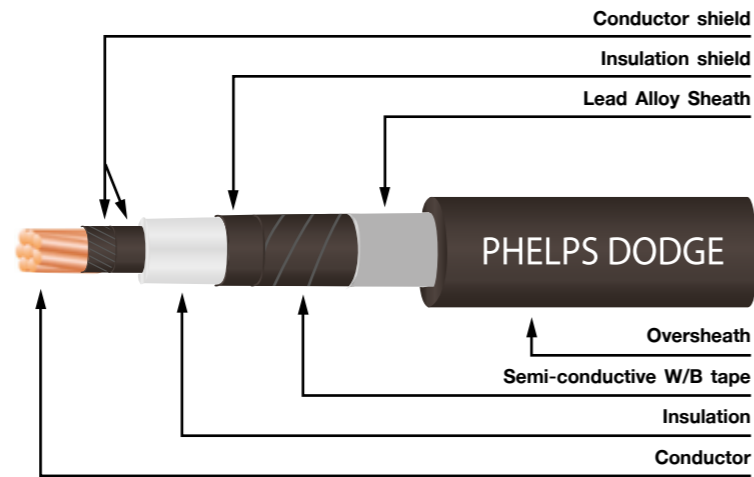
90 °C

AC TEST VOLTAGE :

318 kV (30 minutes)

REFERENCE STANDARD :

IEC 62067



CONSTRUCTION :

- Conductor : Round compact stranded or Milliken conductor
- Conductor shield : Semi-conducting tape and/or extruded semi-conducting cross-linked polyethylene
- Insulation : Cross-linked polyethylene
- Insulation shield : Semi-conducting cross-linked polyethylene
- Longitudinal water blocking layer : Semi-conductive water blocking tape
- Metallic shield : Lead Alloy Sheath and moisture barrier
- Oversheath : Black PE (ST-7)

Cable Construction

Nominal cross-sectional area mm ²	Diameter of conductor (Approx.) mm	Diameter over insulation (Approx.) mm	Nominal thickness of lead sheath mm	Nominal thickness of oversheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Standard packing m
400	23.0	87.0	2.8	4.2	106	19,610	500/R
500	26.0	86.5	2.8	4.1	105	20,340	500/R
630	29.9	86.5	2.8	4.1	105	21,460	500/R
800	33.8	87.5	2.8	4.1	106	23,120	500/R
1,000	39.8	90.0	2.8	4.1	108	25,420	500/R
1,200	43.0	93.5	2.9	4.3	112	28,060	400/R
1,000(M)	39.1	90.5	2.8	4.1	109	25,410	500/R
1,200(M)	42.2	93.5	2.9	4.3	113	27,970	400/R
1,400(M)	45.7	97.0	3.0	4.4	117	31,060	400/R
1,600(M)	48.8	100.5	3.1	4.5	120	33,870	300/R
1,800(M)	51.6	104.0	3.2	4.6	125	36,880	300/R
2,000(M)	54.7	107.0	3.2	4.7	128	39,510	300/R
2,500(M)	61.1	114.5	3.4	5.0	136	46,660	200/R

(M) is Milliken conductor

R = Packing in reel

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Electrical Properties and Current Rating (A)

Nominal cross-sectional area mm ²	Maximum DC resistance of conductor at 20°C Ω/km	Minimum insulation resistance at 20°C MΩ-km	Current rating in air* (A)		Current rating direct burial* (A)		Current rating in PE duct in ground* (A)	
			Trefoil ≥0.5xD _c	Flat ≥0.5xD _c	Trefoil 1 m	Flat 1 m	Trefoil 1 m	Flat 1 m
400	0.047	15,310	772	842	552	576	538	558
500	0.0366	13,580	890	978	625	655	610	634
630	0.0283	11,980	1,029	1,143	707	746	692	722
800	0.0221	10,690	1,171	1,317	788	839	776	813
1,000	0.0176	9,220	1,322	1,511	865	932	859	906
1,200	0.0151	8,760	1,416	1,630	915	993	915	970
1,000(M)	0.0176	9,160	1,390	1,566	911	970	897	941
1,200(M)	0.0151	8,720	1,506	1,705	974	1,043	966	1,016
1,400(M)	0.0129	8,280	1,627	1,854	1,038	1,121	1,038	1,097
1,600(M)	0.0113	7,920	1,732	1,986	1,091	1,186	1,098	1,165
1,800(M)	0.0101	7,750	1,819	2,096	1,134	1,242	1,150	1,225
2,000(M)	0.009	7,440	1,911	2,217	1,179	1,300	1,204	1,287
2,500(M)	0.0072	7,000	2,080	2,446	1,254	1,406	1,302	1,406

(M) is Milliken conductor

***CONDITION :**

1. Ambient air temperature 40°C
2. Ground temperature 30°C
3. Thermal resistivity of soil 1.2 K-m/W
4. Depth of laying 1.0 m
5. Axial spacing between phase cable is 2xOD_{cable} or 2xOD_{duct}
6. Metallic shield and/or sheath bonded at single point or cross-bonded (no sheath circulating current).