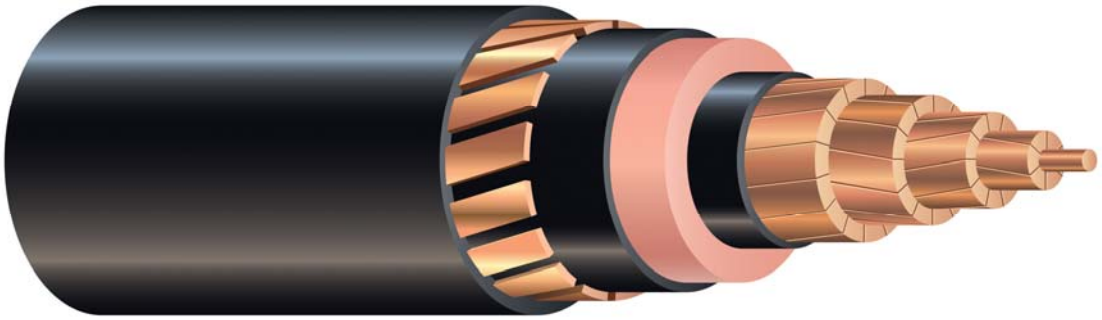
DensFlex® MV PILC Replacement Cable

Copper Conductor. EPR Insulation.
Bare Flat Strap Copper Neutral.
Polyethylene Jacket.



APPLICATIONS

Predominantly used for primary underground distribution in conduit systems; suitable for use in wet or dry locations, direct burial, underground duct, and where exposed to sunlight. Ideal for high density network loads where existing ducts are small and/or in poor condition. To be used at conductor temperatures not to exceed 105°C for normal operation.

SPECIFICATIONS

Southwire's DensFlex MV - PILC Replacement Cable meets or exceeds the following ASTM specifications:

- B3 Soft Annealed Copper Wire
- B496 Compact Round Concentric-Lay-Stranded Copper Conductors

Southwire's DensFlex MV - PILC Replacement Cable is manufactured to the latest edition of the following specifications (with the possible exception of jacket thickness), and in case of specification conflicts, in the order listed:

- ANSI/ICEA S-94-649
- AEIC CS-8
- RUS U-1

CONSTRUCTION

The cable is composed of a moisture blocked, compact stranded, annealed (soft drawn) copper conductor, covered by a semi-conducting cross-linked strand shield, a low loss ethylene propylene rubber (EPR) primary insulation, and a semi-conducting cross-linked insulation shield. A metallic shield of annealed bare copper flat straps are encapsulated in an insulating linear low density polyethylene jacket. The cable is identified by surface print on the jacket and the lightning bolt symbol for supply cables indented in the jacket. Red extruded stripes available upon request.

OPTIONS

- Reduced Insulation Wall Thickness
- Moisture Barrier Components
- Neutral Design – LCT Shield, Helical Cu Tape, Flat Strap Size
- HDPE, PP or PowerGlide Jacket
- Triplexed or Paralleled Assembly

DensFlex MV – PILC Replacement Cable

Phase Conductor		Flat Strap			Thickness Per Cond. (mils)			Nominal Diameter (mils)				Weight lbs/1000 feet	Allowable Ampacities+ In Ducts
Size (AWG or kcmil)	Strand-ing	No. of Straps	Thick-ness (mils)	Width (mils)	Nominal Insul.	Insul. Shield min. Point	Approx. Jkt.	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Comp. Cable		
15 kV													
4/0	18	12	25	150	175	24	50	475	870	940	1090	1161	315
350	35	14	25	150	175	24	50	616	1023	1090	1243	1686	425
500	35	14	25	150	175	24	50	736	1143	1210	1363	2208	515
750	58	17	25	150	175	24	50	908	1323	1390	1543	3126	670
1000	58	18	25	150	175	24	50	1060	1473	1540	1693	3991	725
25 kV													
4/0	18	12	25	150	260	24	50	475	1035	1105	1255	1306	315
350	35	14	25	150	260	24	50	616	1185	1255	1405	1848	425
500	35	14	25	150	260	24	50	736	1305	1375	1525	2385	515
750	58	17	25	150	260	24	50	908	1488	1555	1708	3332	670
1000	58	18	25	150	260	24	50	1060	1638	1705	1858	4216	725
35 kV													
4/0	18	12	25	150	345	24	50	475	1210	1280	1430	1484	315
350	35	14	25	150	345	24	50	616	1360	1430	1580	2047	425
500	35	14	25	150	345	24	50	736	1480	1550	1700	2601	515
750	58	17	25	150	345	24	50	908	1660	1730	1880	3569	670
1000	58	18	25	150	345	24	50	1060	1813	1880	2033	4480	725

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 105°C conductor temperature, earth RHO 90.

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