

**FS17 450/750V**

CPR Cca-s3,d1,a3

Model Product: P90 - 20200603

**general**  
**CAVI** s.p.a.

Class 5 flexible copper conductor.  
PVC insulation in S17 quality

**STANDARDS**

CEI UNEL 35716-CEI UNEL35016 CEI EN 50525  
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN  
60754-2)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

**COMMON FEATURES**

Suitable for electrical power system in constructions and other civil engineering buildings, in order to limit fire and smoke production and spread, in accordance with CPR regulations. This cable is suitable for fixed and protected installation up to 1000V. It must be laid inside pipes at sight, embedded or close system. Section 1mm<sup>2</sup> is used for wirings of electric sets for electric circuits of lifts. Cannot be installed in contact with surfaces.

**EMPLOYMENT**

Minimum bending radius per D cable diameter (in mm):

Fixed lay:  $D < 12 = 3D$   $D < 20 = 4D$

Free move:  $D < 12 = 5D$   $D < 20 = 6D$

Maximum pulling stress: 50 N/mm<sup>2</sup>

**PACKING**

100mt. rings in thermoplastic film or cardboard packagings. In cardboard drums or plastic reel.

Cables in accordance with the European Regulation CPR for power supply of construction and other civil engineering works. interior applications and wiring.

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 3000 V

Maximum voltage Um: 1000V Installazioni Fisse / for fixed and protected installation

Maximum operating temperature: +70°C

Maximum short circuit temperature: +160°C

Minimum installation and laying temperature: +5°C

Min. operating temperature (without mechanical shocks): -10°C

**CORE COLOURS**

Single core: Black, brown, light blue, grey, red, white, yellow/green, orange, pink, dark blue, violet.

**INK MARKING**

GENERAL CAVI -Cca-s3,d1,a3 - IEMMEQU EFP FS17 450/750V - form. x sect. - inner work order - year - progressive length (from section 10mm<sup>2</sup>)

**MARKING ENGRAVING**

GENERAL CAVI -Cca-s3,d1,a3 - IEMMEQU EFP FS17 450/750V year

**NOTE**

Maximum storage temperature: +40°C

# FS17 450/750V

CPR Cca-s3,d1,a3

Model Product: P90 - 20200603



Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	Current carrying capacities in air 30°C
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)
Single core							
1x	1	1.3	0.7	3.0	16	19.5	12
1x	1.5	1.6	0.7	3.4	20	13.3	15.5
1x	2.5	2	0.8	4.1	31	7.98	21
1x	4	2.6	0.8	4.8	46	4.95	28
1x	6	3.4	0.8	5.3	64	3.3	36
1x	10	4.4	1	6.8	111	1.91	50
1x	16	5.7	1	8.7	163	1.21	68
1x	25	6.9	1.2	10.2	247	0.78	89
1x	35	8.1	1.2	11.7	336	0.554	110
1x	50	9.8	1.4	13.9	483	0.386	134
1x	70	11.6	1.4	16.0	670	0.272	171
1x	95	13.3	1.6	18.2	886	0.206	207
1x	120	15.1	1.6	20.2	1108	0.161	239
1x	150	16.8	1.8	22.5	1384	0.129	275
1x	185	18.8	2	24.9	1693	0.106	314
1x	240	21.4	2.2	28.4	2191	0.0801	369

Current carrying capacities are calculated on a single circuit with 3 loaded conductors. Lay type: CEI 64-8 Tab 52.C (3-5-31-32-33-33-18)