

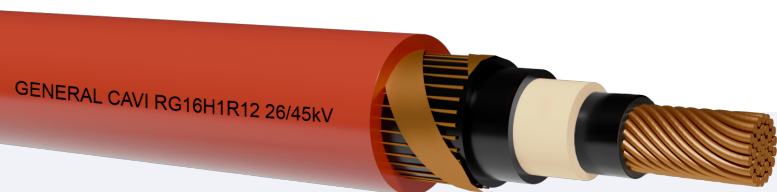
MEDIUM VOLTAGE

RG16H1R12 26/45kV.

(ALTA TENSIONE)CPR Eca

Model Product: 7R0 - 20200415

general
CAVI s.p.a.



Rigid class 2 red copper conductor.
Inner semi-conducting layer
Elastomeric mixture insulation (G16 quality).
Cold-peelable extruded elastomeric external semiconductor
Red copper wire shield.
Sheath of PVC R12 type. For MT

STANDARDS

CEI 20-16 PQA IEC 60840 PQA IEC 60502pqa, CEI
20-13pqa, HD 620pqa
EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

COMMON FEATURES

Suitable for the transport of energy between the substations and large users, For free-hanging, tube or channel. Laying underground in accordance with Art. 4.3.11 of IEC 11-17

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 12 D
Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

Cables for connections between substations and large users

Nominal voltage U0: 26 kV

Nominal voltage U: 45 kV

Maximum voltage Um: 52 kV

Maximum operating temperature: +105°C

Maximum short circuit temperature: +300°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

CORE COLOURS

Single core: pink

SHEATH COLOUR

Red

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ALTA TENSIONE RG16H1R12 U_o/U : 26/45 kV - U max : 52 kV (EX GRADO 67)

Conductor Number		Nominal Section		Approx conductor diameter		Approx insulation diameter		Approx external production diameter		Approx cable weight		Minimum radius bending	
(N°)		(mmq)		(mm)		(mm)		(mm)		(kg/km)		(mm)	
Single core													
1x		50		8.1		30.2		40.0		1800		480	
1x		70		9.9		33.3		43.0		1990		550	
1x		95		11.5		34.9		44.0		2300		580	
1x		120		12.9		36.5		45.6		2630		585	
1x		150		14.2		36.85		46.0		2790		590	
1x		185		15.9		38.85		47.0		3200		610	
1x		240		18.3		40.95		49.5		3820		650	
1x		300		20.7		43.4		53.0		4640		690	
1x		400		23.5		46.2		56.0		5430		730	
1x		500		26.5		49.3		59.0		6600		770	
1x		630		31.2		53.3		64.0		8200		850	
Formation	Electric resistance at 20°C	Capacities 50 Hz	Apparent resistance at 105°C and 50 Hz		Phase Reactance		Current carrying capacities						
			Trefoil formation	Flat	Trefoil formation	Flat	Trefoil formation in air	Flat in air	Trefoil formation in ground	Flat in ground			
(N°xmmq)	(Ohm/km)	(microF/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(A)	(A)	(A)	(A)			
Single core													
1x50	0.387	0.15	0.494	0.494	0.15	0.20	225	250	205	212			
1x70	0.268	0.15	0.342	0.342	0.15	0.21	280	315	255	260			
1x95	0.193	0.16	0.246	0.246	0.14	0.20	340	380	300	310			
1x120	0.153	0.18	0.196	0.196	0.14	0.20	395	440	355	365			
1x150	0.124	0.20	0.159	0.158	0.13	0.19	445	495	385	395			
1x185	0.0991	0.21	0.128	0.127	0.13	0.19	510	570	440	450			
1x240	0.0754	0.23	0.0985	0.0972	0.12	0.18	600	665	510	520			
1x300	0.0601	0.26	0.0797	0.0779	0.12	0.18	695	760	570	580			
1x400	0.0470	0.28	0.0638	0.0616	0.11	0.17	800	875	650	655			
1x500	0.0366	0.31	0.0517	0.0489	0.11	0.17	930	1010	735	740			
1x630	0.0283	0.34	0.0425	0.0389	0.10	0.16	1070	1180	835	845			