AL/XLPE/HDPE 18/30 kV ECA

MT

CARATTERISTICHE TECNICHE
TECHNICAL FEATURES

CONFORME CPR REG.305/2011/UE
CPR COMPLIANT REG.305/2011/UE

CONDUTTORE CONDUCTOR	Conduttore in alluminio a trefoli, classe 2 secondo IEC 60228 Stranded aluminium conductor, class 2 acc. to IEC 60228	**SCHERMATURA** SHIELD	Nastro di Alluminio, applicato longitudinalemente Aluminium tape, applied longitudinally
SEMICONDUTTORE SEMICONDUCTOR	Semiconduttore estruso, incollato Extruded semiconductor, bonded type	**GUAINA ESTERNA** OUTER SHEATH	HDPE, colore rosso HDPE, colour red
ISOLAMENTO INSULATION	Polietilene Reticolato XLPE secondo IEC 60502-2 Cross-Linked Polyethylene XLPE acc.to IEC 60502-2	**TENSIONE DI ESERCIZIO** OPERATING VOLTAGE	18 / 30 (36) kV
SEMICONDUTTORE SEMICONDUCTOR	Semiconduttore estruso, rimuovibile Extruded semiconductor, strippable type	**TEMP. MASSIMA DI ESERCIZIO** MAX OPERATING TEMPERATURE	90°C
SEMICONDUTTORE SEMICONDUCTOR	Nastro semiconduttore impermeabile Semiconductive waterblocking tape	**TEMP. MASSIMA DI ESERCIZIO** MAX OPERATING TEMPERATURE	250°C

CONDIZIONI DI POSA A TREFOGLIO
LAYING CONDITIONS AT TREFOIL FORMATION

RESISTIVITÀ TERMICA DEL SUOLO THERMAL RESISTIVITY OF THE SOIL	150°C.Cm/Watt
PROFONDITÀ DI INTERRAMENTO BURIAL DEPTH	0.8m
TEMPERATURA DEL TERRENO SOIL TEMPERATURE	20°C
TEMPERATURA DELL'ARIA AIR TEMPERATURE	25°C
FREQUENZA FREQUENCY	50Hz

MARCATURA
MARKING

SADA CAVI SPA NxS mm2 18/30 kV AL/XLPE/HDPE YEAR Meter Marking

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CORES X SIZE (N x mm²)	OUTER DIAMETER (mm)±4mm	CABLE WEIGHT (kg/km)±5%	MIN BENDING RADIUS (mm)	MAX CONDUCTOR DC RESISTANCE AT 20°C (Ω/km)	COND. AC RESISTANCE AT MAX OPERATING TEMP. AND 50 Hz (Ω/km)	CONDUCTOR S.C.C FOR 1 sec (kA)
1 x 50	32.2	893	645	0.641	0.822	4.72
1 x 70	33.8	1012	680	0.443	0.5682	6.61
1 x 95	35.5	1139	710	0.32	0.4106	8.98
1 x 120	36.9	1263	740	0.253	0.3248	11.34
1 x 150	39.3	1436	790	0.206	0.2646	14.17
1 x 185	40.2	1560	805	0.164	0.2109	17.48
1 x 240	42.8	1810	805	0.125	0.1612	22.68
1 x 300	45.4	2081	910	0.1	0.1294	28.35
1 x 400	48.1	2441	965	0.0778	0.1014	37.79
1 x 500	51.3	2856	1030	0.0605	0.0798	47.24
1 x 630	56.4	3520	1130	0.0469	0.063	59.52
1 x 800	61.4	4275	1230	0.0367	0.0509	75.59
1 x 1000	70.9	5530	1420	0.0291	0.0418	94.48

CORES X SIZE (N x mm²)	SCREEN S.C.C FOR 1 sec (kA)	CAPACITANCE (µF/km)	CURRENT CARRYING CAPACITY			NOMINAL INSULATION THICKNESS (mm)	NOMINAL SHEATING THICKNESS (mm)
			LAID IN GROUND	LAID IN DUCT	LAID IN FREE AIR		
1 x 50	1	0.138	180	145	202	8	2
1 x 70	1.05	0.153	221	180	250	8	2
1 x 95	1.1	0.167	265	212	302	8	2.1
1 x 120	1.15	0.18	306	247	348	8	2.1
1 x 150	1.25	0.199	338	277	397	8	2.2
1 x 185	1.25	0.208	387	308	454	8	2.2
1 x 240	1.35	0.229	447	369	538	8	2.3
1 x 300	1.46	0.251	503	420	619	8	2.4
1 x 400	1.51	0.273	578	487	719	8	2.5
1 x 500	1.61	0.299	654	561	843	8	2.6
1 x 630	1.81	0.343	759	650	979	8	2.7
1 x 800	1.96	0.385	860	738	1128	8	2.8
1 x 1000	2.26	0.45	941	878	1244	8	3