ARE4H1R 18/30 kV

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	**NASTRO DI LEGATURA** BINDER TAPE	
SEMICONDUTTORE SEMICONDUCTOR	Semiconduttore estruso, incollato Extruded semiconductor, bonded type	**GUAINA ESTERNA** OUTER SHEATH	PVC, colore rosso PVC, 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
SCHERMATURA SHIELD	Fili di rame con schermo a nastro di rame a elica Copper wires with Open Helix Copper Tape Screen	**TEMP. MASSIMA DI CORTOCIRCUITO** MAX OPERATING TEMPERATURE	250°C

CONDIZIONI DI POSA IN PIANO A CONTATTO
LAYING CONDITIONS AT FLAT TOUCHING FORMATION

RESISTIVITÀ TERMICA DEL SUOLO THERMAL RESISTIVITY OF THE SOIL	100°C.Cm/Watt
PROFONDITÀ DI INTERRAMENTO BURIAL DEPTH	0.8m
TEMPERATURA DEL TERRENO SOIL TEMPERATURE	20°C
TEMPERATURA DELL'ARIA AIR TEMPERATURE	30°C
FREQUENZA FREQUENCY	50Hz

MARCATURA
MARKING

SADA CAVI SPA NxS mm2 12/20 kV ARE4H1R IEC 60502-2 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	33.2	1025	500	0.641	0.822	4.72
1 x 70	34.8	1143	525	0.443	0.5682	6.61
1 x 95	36.3	1258	545	0.32	0.4106	9.03
1 x 120	37.7	1379	570	0.253	0.3248	11.34
1 x 150	40.1	1635	605	0.206	0.2646	14.17
1 x 185	41	1758	615	0.164	0.2109	17.48
1 x 240	43.6	2014	655	0.125	0.1612	22.68
1 x 300	46.2	2291	695	0.1	0.1294	28.35
1 x 400	48.9	2735	735	0.0778	0.1014	37.79
1 x 500	52.1	3160	785	0.0605	0.0797	47.24
1 x 630	57.2	3832	860	0.0469	0.063	59.52
1 x 800	62.2	4600	935	0.0367	0.0509	75.59
1 x 1000	72	5959	1080	0.0291	0.0418	94.48

CORES X SIZE (N x mm²)	CAPACITANCE (µF/km)	COPPER SCREEN CSA (mm²)	CURRENT CARRYING CAPACITY		NOMINAL INSULATION THICKNESS (mm)	NOMINAL SHEATING THICKNESS (mm)
			LAID IN GROUND	LAID IN FREE AIR		
1 x 50	0.141	16	180	185	8	2
1 x 70	0.157	16	218	232	8	2
1 x 95	0.171	16	267	282	8	2.1
1 x 120	0.184	16	303	324	8	2.1
1 x 150	0.205	25	339	367	8	2.2
1 x 185	0.213	25	384	425	8	2.2
1 x 240	0.236	25	432	499	8	2.3
1 x 300	0.258	25	485	575	8	2.4
1 x 400	0.281	35	555	672	8	2.5
1 x 500	0.309	35	638	786	8	2.6
1 x 630	0.354	35	725	909	8	2.7
1 x 800	0.397	35	817	1053	8	2.8
1 x 1000	0.444	35	864	1164	8	3