ARE4H1R 12/20 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	12 / 20 (24) 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	28.2	800	425	0.641	0.822	4.72
1 x 70	30	921	450	0.443	0.5682	6.61
1 x 95	31.5	1024	475	0.32	0.4106	9.03
1 x 120	33.1	1153	500	0.253	0.3248	11.34
1 x 150	35.3	1358	530	0.206	0.2647	14.17
1 x 185	36.2	1477	545	0.164	0.211	17.48
1 x 240	38.6	1692	580	0.125	0.1613	22.68
1 x 300	41.2	1947	620	0.1	0.1295	28.35
1 x 400	44.9	2426	675	0.0778	0.1015	37.79
1 x 500	48.1	2827	725	0.0605	0.0799	47.24
1 x 630	53.2	3464	800	0.0469	0.0632	59.52
1 x 800	58.4	4227	880	0.0367	0.0511	75.59
1 x 1000	66.6	5383	1000	0.0291	0.0422	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	0.184	16	180	185	5.5	1.8
1 x 70	0.206	16	218	229	5.5	1.9
1 x 95	0.227	16	264	277	5.5	1.9
1 x 120	0.246	16	299	320	5.5	2
1 x 150	0.276	25	336	363	5.5	2
1 x 185	0.288	25	380	417	5.5	2.1
1 x 240	0.321	25	432	495	5.5	2.1
1 x 300	0.353	25	485	570	5.5	2.2
1 x 400	0.387	35	555	665	5.5	2.3
1 x 500	0.428	35	634	779	5.5	2.4
1 x 630	0.494	35	721	905	5.5	2.5
1 x 800	0.558	35	811	1049	5.5	2.7
1 x 1000	0.617	35	867	1169	5.5	2.8