













## CARATTERISTICHE TECNICHE TECHNICAL FEATURES

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



	<b>CONDUTTORE</b> CONDUCTOR	Conduttore in alluminio a trefoli, classe 2 secondo IEC 60228 Stranded aluminium conductor, class 2 acc. to IEC 602		<b>NASTRO DI LEGATURA</b> BINDER TAPE	
	<b>SEMICONDOTTORE</b> SEMICONDUCTOR	Semiconduttore estruso, incollato Extruded semiconductor, bonded type		<b>GUAINA ESTERNA</b> OUTER SHEATH	PVC, colore rosso PVC, colour red
	<b>ISOLAMENTO</b> INSULATION	Polietilene Reticolato XLPE secondo IEC 60502-2 Cross-Linked Polyethylene XLPE acc.to IEC 60502-2		<b>TENSIONE DI ESERCIZIO</b> OPERATING VOLTAGE	12 / 20 (24) kV
	<b>SEMICONDOTTORE</b> SEMICONDUCTOR	Semiconduttore estruso, rimuovibile Extruded semiconductor, strippable type		<b>TEMP. MASSIMA DI ESERCIZIO</b> MAX OPERATING TEMPERATURE	90°C
	<b>SCHERMATURA</b> SHIELD	Fili di rame con schermo a nastro di rame a elica Copper wires with Open Helix Copper Tape Screen		<b>TEMP. MASSIMA DI CORTOCIRCUITO</b> MAX OPERATING TEMPERATURE	250° C

## CONDIZIONI DI POSA A TRIFOGLIO LAYING CONDITIONS AT TREFOIL FORMATION

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

## MARCATURA MARKING

SADA CAVI SPA NxS mm<sup>2</sup> 12/20 kV ARE4H1RX IEC 60502-2 YEAR Meter Marking

# ARE4H1RX 18/30 kV

CORES X SIZE (N x mm <sup>2</sup> )	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)
3 x 1 x 50	71.7	3109	1080	0.641	0.822	4.72
3 x 1 x 70	75.2	3467	1130	0.443	0.5682	6.61
3 x 1 x 95	78.4	3813	1180	0.32	0.4106	9.03
3 x 1 x 120	81.4	4180	1225	0.253	0.3248	11.34
3 x 1 x 150	86.6	4911	1300	0.206	0.2646	14.17
3 x 1 x 185	88.6	5290	1330	0.164	0.2109	17.48
3 x 1 x 240	94.2	6063	1415	0.125	0.1612	22.68
3 x 1 x 300	99.8	6900	1500	0.1	0.1294	28.35
3 x 1 x 400	105.6	8299	1585	0.0778	0.1014	37.79

CORES X SIZE (N x mm <sup>2</sup> )	CAPACITANCE (μF/km)	COPPER SCREEN CSA (mm <sup>2</sup> )	CURRENT CARRYING CAPACITY		NOMINAL INSULATION THICKNESS (mm)	NOMINAL SHEATING THICKNESS (mm)
			LAI D IN GROUND	LAI D IN FREE AIR		
3 x 1 x 50	0.141	16	181	193	8	2
3 x 1 x 70	0.157	16	222	239	8	2
3 x 1 x 95	0.171	16	266	288	8	2.1
3 x 1 x 120	0.184	16	307	332	8	2.1
3 x 1 x 150	0.205	25	339	379	8	2.2
3 x 1 x 185	0.213	25	388	433	8	2.2
3 x 1 x 240	0.236	25	439	513	8	2.3
3 x 1 x 300	0.258	25	494	590	8	2.4
3 x 1 x 400	0.281	35	568	685	8	2.5