

ARE4H5EX 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 Round stranded compacted aluminium conductor, class 2 acc. to IEC 60228	 GUAINA ESTERNA OUTER SHEATH	MDPE, colore rosso MDPE, colour red
 SEMICONDUITTORE SEMICONDUCTOR	Semiconduttore estruso, incollato Extruded semiconductor, bonded type	 TENSIONE DI ESERCIZIO OPERATING VOLTAGE	18 / 30 (36) kV
 ISOLAMENTO INSULATION	Polietilene Reticolato XLPE secondo IEC 60502-2 Cross-Linked Polyethylene XLPE acc.to IEC 60502-2	 TEMP. MASSIMA DI ESERCIZIO MAX OPERATING TEMPERATURE	90°C
 SEMICONDUITTORE SEMICONDUCTOR	Semiconduttore estruso, incollato Extruded semiconductor, bonded type	 TEMP. MASSIMA DI ESERCIZIO MAX OPERATING TEMPERATURE	250°C
 SEMICONDUITTORE SEMICONDUCTOR	Nastro semiconduttore impermeabile Semiconductive waterblocking tape	 CONFORME CPR CONFORME CPR	Fca
 SCHERMATURA SHIELD	Nastro di Alluminio (spessore 0,15mm) Aluminium tape (thickness 0,15mm)		

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 ARE4H5EX YEAR Meter Marking

ARE4H5EX 18/30 kV

USO USE

SADA CAVI SPA NxS mm² 12/20 kV ARE4H5EX 2025 Meter Marking
These cables are suitable for direct burial at burying depth $\geq 0,8\text{m}$

CORES X SIZE (N x mm ²)	OUTER DIAMETER (mm) $\pm 4\text{mm}$	CABLE WEIGHT (kg/km) $\pm 5\%$	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	66.1	2451	995	0.641	0.822	4.72
3 x 1 x 70	69.6	2801	1045	0.443	0.5682	6.61
3 x 1 x 95	72.8	3141	1095	0.32	0.4106	8.98
3 x 1 x 120	75.8	3502	1140	0.253	0.3248	11.34
3 x 1 x 150	81	4000	1215	0.206	0.2646	14.17
3 x 1 x 185	82.9	4375	1245	0.164	0.2109	17.48
3 x 1 x 240	88.6	5102	1330	0.125	0.1612	22.68
3 x 1 x 300	94.2	5897	1415	0.1	0.1295	28.35
3 x 1 x 400	100	6975	1500	0.0778	0.1014	37.79

CORES X SIZE (N x mm ²)	CAPACITANCE ($\mu\text{F}/\text{km}$)	REACTANCE AT 50 Hz (Ω/km)	CURRENT CARRYING CAPACITY			NOMINAL INSULATION THICKNESS (mm)	NOMINAL SHEATING THICKNESS (mm)
			LAI D IN GROUND	LAI D IN DUCT*	LAI D IN FREE AIR		
3 x 1 x 50	0.141	0.192	180	145	185	8	2
3 x 1 x 70	0.157	0.184	218	181	232	8	2
3 x 1 x 95	0.171	0.178	267	213	282	8	2.1
3 x 1 x 120	0.184	0.173	303	248	324	8	2.1
3 x 1 x 150	0.205	0.167	339	278	367	8	2.2
3 x 1 x 185	0.213	0.164	384	309	425	8	2.2
3 x 1 x 240	0.236	0.159	432	366	499	8	2.3
3 x 1 x 300	0.258	0.155	485	418	575	8	2.4
3 x 1 x 400	0.281	0.152	555	484	672	8	2.5

* = posati a trifoglio / at trefoil formation