ARE4H5EX 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 Round stranded compacted aluminium conductor, class 2 acc. to IEC 60228 Stranded aluminium conductor, class 2 acc. to IEC 60228	**GUAINA ESTERNA** OUTER SHEATH	MDPE, colore rosso MDPE, colour red
SEMICONDUTTORE SEMICONDUCTOR	Semiconduttore estruso, incollato Extruded semiconductor, bonded type	**TENSIONE DI ESERCIZIO** OPERATING VOLTAGE	12 / 20 (24) 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
SEMICONDUTTORE SEMICONDUCTOR	Semiconduttore estruso, rimuovibile Extruded semiconductor, strippable type	**TEMP. MASSIMA DI ESERCIZIO** MAX OPERATING TEMPERATURE	250°C
SEMICONDUTTORE 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 12/20 kV

USO
USE

SADA CAVI SPA NxS mm2 12/20 kV ARE4H5EX 2025 Meter Marking
These cables are suitable for direct burial at buring depth ≥ 0,8m

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)
3 x 1 x 50	55.3	1827	830	0.641	0.822	4.72
3 x 1 x 70	59.2	2167	890	0.443	0.5682	6.61
3 x 1 x 95	62.4	2476	940	0.32	0.4106	8.98
3 x 1 x 120	65.9	2837	990	0.253	0.3248	11.34
3 x 1 x 150	70.6	3255	1060	0.206	0.2647	14.17
3 x 1 x 185	72.6	3605	1090	0.164	0.211	17.48
3 x 1 x 240	77.8	4205	1170	0.125	0.1613	22.68
3 x 1 x 300	83.4	4990	1255	0.1	0.1296	28.35
3 x 1 x 400	89.2	5996	1340	0.0778	0.1017	37.79

CORES X SIZE (N x mm²)	CAPACITANCE (µF/km)	REACTANCE AT 50 Hz (Ω/km)	CURRENT CARRYING CAPACITY			NOMINAL INSULATION THICKNESS (mm)	NOMINAL SHEATING THICKNESS (mm)
			LAID IN GROUND	LAID IN DUCT*	LAID IN FREE AIR		
3 x 1 x 50	0.184	0.181	180	142	185	5.5	1.8
3 x 1 x 70	0.206	0.174	218	173	229	5.5	1.9
3 x 1 x 95	0.227	0.168	264	213	277	5.5	1.9
3 x 1 x 120	0.246	0.164	299	243	320	5.5	2
3 x 1 x 150	0.276	0.158	336	274	363	5.5	2
3 x 1 x 185	0.288	0.156	380	309	417	5.5	2.1
3 x 1 x 240	0.321	0.151	432	361	495	5.5	2.1
3 x 1 x 300	0.353	0.148	485	413	570	5.5	2.2
3 x 1 x 400	0.387	0.145	555	479	665	5.5	2.3

* = posati a trifoglio / at trefoil formation