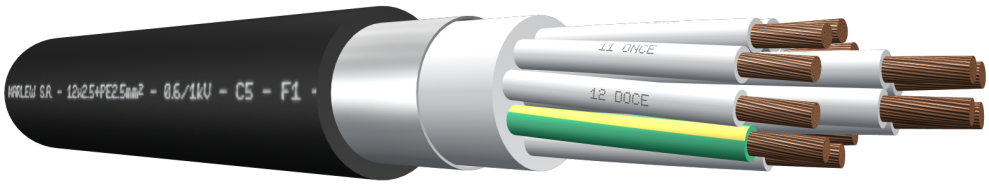
RefINAR CLAD series YC-F

Multiconductor Armour (Tape)



STEEL TAPE ARMOUR

0.6/1kV	***Flexible Cu 1 up to 4mm²***	***XLPE 90°C***	***Hydrocarbons and UV resistant PVC***

Control, signalling, protective equipment and electric controls for oil and gas industry (Midstream and Downstream) Installed in aerial trays, gutters or conduits, under roof or ladder under roof, buried in ducts or directly buried. It has additional mechanical protection.

Fire-retardant

HCL < 15%

Flexible stranded conductors

Mineral oil resistant

UV resistant

Suitable for low temperatures

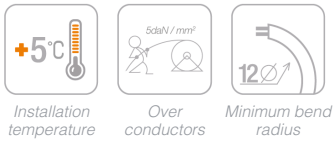
FEATURES

Temperature ratings: 90°C (Operating) – 130°C (Overload) – 250°C (Short-Circuit)
Minimum temperature: Suitable for use in installations up to -30ºC
Voltage rating: 600/1000 Volt A.C. – 1200 Volt A.C. (Max) – 1500 Volt D.C.
Construction requirements: IEC 60502-1 – IRAM 2178-1
Conductor requirements: IRAM NM 280 – IEC 60228
Conductor: Annealed electrolytic copper - Flexible stranding class 5
Insulation: XLPE (Cross-Linked Polyethylene)
Bedding: Flame retardant PVC
Armour: Double galvanized steel helical tape
Sheath: Flame retardant PVC, enhanced hydrocarbons resistance, UV resistant and suitable for low temperature ratings, with low hydrochloric acid emissions (HCl)
Fire requirements: As per IEC 60332-3-24
Hydrocarbons resistance standard: UIC 895 OR (Oil and gas fuel)
Outdoors requirements: As per UL 2556 (UV Resistance)
Halogen emissions standard: IEC 60754-1 (HCl emission < 15%)

IDENTIFICATION

	Strandard	
	Sheath	Conductors
Multiconductor	●	○ alphanumeric identification

INSTALLATION



Installation temperature | Over conductors | Minimum bend radius

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ELECTRICAL CHARACTERISTICS

Resistances, reactance and intensity of admissible currents

Nominal cross-section sc mm²	Electrical resistance at 20°C in C.C Ohm/km	Electrical resistance at 90°C in C.A. Ohm/km	Current-carrying capacity in free air. At 40°C as per IEC 364-5-523. Formations in perforated trays or ladder type. (Ampere)						
			2x	4x	7x	10x	19x	30x	48x
1	19.5	24.86	--	--	--	--	--	--	--
1.5	13.3	16.96	23	20	16.1	11.5	11.5	10.4	8.1
2.5	7.98	10.18	31	28	21.7	15.5	15.5	14.0	10.9
4	4.95	6.31	43	36	30.1	21.5	21.5	19.4	--

As from seven-conductors, we've additionally applied the correction factor for more than three conductors the chart 310.15 (B)(3)(a) of the NFPA70.

DIMENSIONS & WEIGHT

Cable formation N° Cond. x cross-section (mm²)	Diameter under armour mm	External diameter mm	Weight kg/km	Code
10x1.0	12.0	15.8	365	YC 10C1.0 F
12x1.0	12.9	16.7	406	YC 12C1.0 F
14x1.0	13.7	17.5	446	YC 14C1.0 F
19x1.0	15.6	19.4	541	YC 19C1.0 F
24x1.0	17.2	21.0	632	YC 24C1.0 F
30x1.0	19.0	22.8	749	YC 30C1.0 F
37x1.0	20.8	24.6	868	YC 37C1.0 F
48x1.0	23.3	27.3	1059	YC 48C1.0 F
5x1.5	10.1	13.9	308	YC 5C1.5 F
7x1.5	11.0	14.8	354	YC 7C1.5 F
10x1.5	12.9	16.7	427	YC 10C1.5 F
12x1.5	13.9	17.7	479	YC 12C1.5 F
14x1.5	14.8	18.6	530	YC 14C1.5 F
19x1.5	16.9	20.7	650	YC 19C1.5 F
24x1.5	18.7	22.5	766	YC 24C1.5 F
30x1.5	20.6	24.4	913	YC 30C1.5 F
37x1.5	22.6	26.4	1066	YC 37C1.5 F
48x1.5	25.4	29.4	1312	YC 48C1.5 F
3x2.5	9.5	13.3	291	YC 3C2.5 F
4x2.5	10.4	14.2	332	YC 4C2.5 F
5x2.5	11.3	15.1	380	YC 5C2.5 F
7x2.5	12.3	16.1	446	YC 7C2.5 F
10x2.5	14.5	18.3	547	YC 10C2.5 F
12x2.5	15.7	19.5	619	YC 12C2.5 F
14x2.5	16.7	20.5	690	YC 14C2.5 F
19x2.5	19.1	22.9	861	YC 19C2.5 F
24x2.5	21.1	24.9	1026	YC 24C2.5 F
30x2.5	23.3	27.3	1245	YC 30C2.5 F
37x2.5	25.7	29.7	1466	YC 37C2.5 F

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Cable formation N° Cond. x cross-section (mm²)	Diameter under armour mm	External diameter mm	Weight kg/km	Code
48x2.5	28.9	33.3	1836	YC 48C2.5 F
2x4	10.1	13.9	317	YC 2C4 F
3x4	10.7	14.5	360	YC 3C4 F
4x4	11.7	15.5	417	YC 4C4 F
5x4	12.7	16.5	483	YC 5C4 F
7x4	13.9	17.7	578	YC 7C4 F
10x4	16.4	20.2	718	YC 10C4 F
12x4	17.8	21.6	821	YC 12C4 F
14x4	19.0	22.8	922	YC 14C4 F
19x4	21.7	25.5	1167	YC 19C4 F
24x4	24.1	28.1	1418	YC 24C4 F
30x4	26.7	30.9	1728	YC 30C4 F
37x4	29.4	33.6	2053	YC 37C4 F
48x4	33.1	38.9	2962	YC 48C4 F
9x1.0+PE1.0	12.0	15.8	365	YC 9C1.0G1.0 F
11x1.0+PE1.0	12.9	16.7	406	YC 11C1.0G1.0 F
13x1.0+PE1.0	13.7	17.5	446	YC 13C1.0G1.0 F
18x1.0+PE1.0	15.6	19.4	541	YC 18C1.0G1.0 F
23x1.0+PE1.0	17.2	21.0	632	YC 23C1.0G1.0 F
29x1.0+PE1.0	19.0	22.8	749	YC 29C1.0G1.0 F
36x1.0+PE1.0	20.8	24.6	868	YC 36C1.0G1.0 F
47x1.0+PE1.0	23.3	27.3	1059	YC 47C1.0G1.0 F
4x1.5+PE1.5	10.1	13.9	308	YC 4C1.5G1.5 F
6x1.5+PE1.5	11.0	14.8	354	YC 6C1.5G1.5 F
9x1.5+PE1.5	12.9	16.7	427	YC 9C1.5G1.5 F
11x1.5+PE1.5	13.9	17.7	479	YC 11C1.5G1.5 F
13x1.5+PE1.5	14.8	18.6	530	YC 13C1.5G1.5 F
18x1.5+PE1.5	16.9	20.7	650	YC 18C1.5G1.5 F
23x1.5+PE1.5	18.7	22.5	766	YC 23C1.5G1.5 F
29x1.5+PE1.5	20.6	24.4	913	YC 29C1.5G1.5 F
36x1.5+PE1.5	22.6	26.4	1066	YC 36C1.5G1.5 F
47x1.5+PE1.5	25.4	29.4	1312	YC 47C1.5G1.5 F
2x2.5+PE2.5	9.5	13.3	291	YC 2C2.5G2.5 F
3x2.5+PE2.5	10.4	14.2	332	YC 3C2.5G2.5 F
4x2.5+PE2.5	11.3	15.1	380	YC 4C2.5G2.5 F
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29x2.5+PE2.5	23.3	27.3	1245	YC 29C2.5G2.5 F
36x2.5+PE2.5	25.7	29.7	1466	YC 36C2.5G2.5 F
47x2.5+PE2.5	28.9	33.3	1836	YC 47C2.5G2.5 F

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4x4+PE4	12.7	16.5	483	YC 4C4G4 F
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18x4+PE4	21.7	25.5	1167	YC 18C4G4 F
23x4+PE4	24.1	28.1	1418	YC 23C4G4 F
29x4+PE4	26.7	30.9	1728	YC 29C4G4 F
36x4+PE4	29.4	33.6	2053	YC 36C4G4 F
47x4+PE4	33.1	38.9	2962	YC 47C4G4 F

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