CONDY PRO

It is supplied with caps at the ends to retain the high level of cleanliness of the internal surface required for installation.

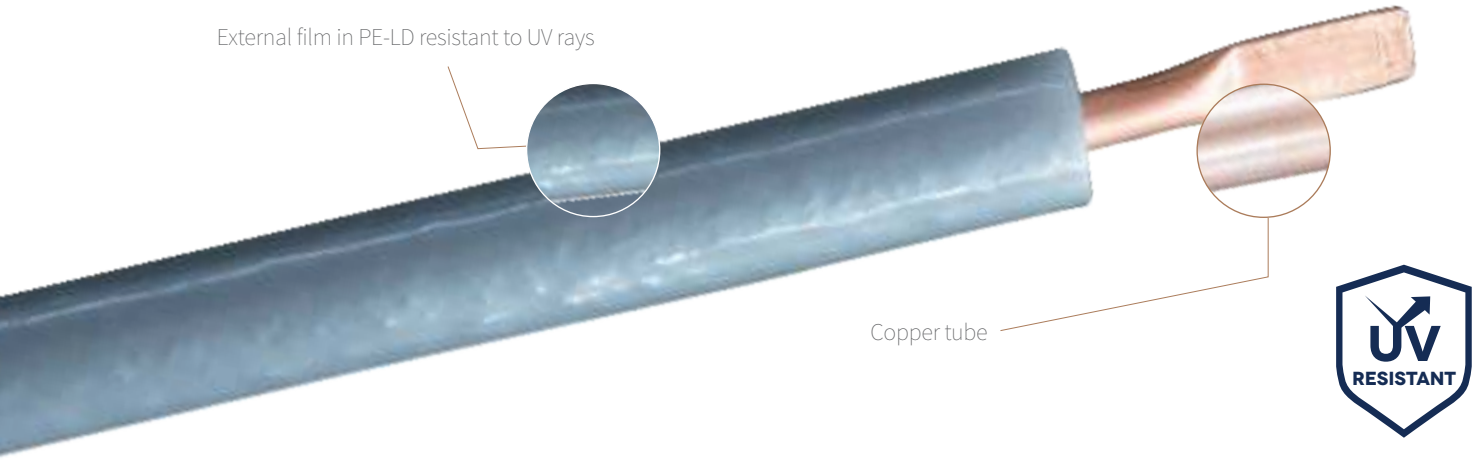
The particularly well-designed coating is made from very low-density closed cell expanded polyethylene and guarantees an excellent resistance to the spread of water vapour with a subsequent reduction in the formation of humidity on the outer surface of the tube.

The coating is odourless, non-toxic and made without the use of CFCs. Its external surface is corrugated giving further mechanical protection. It is classified as Class 1 fire resistant and is suitable for use in plants with operating temperatures ranging from -80°C to +120°C.

The **CONDY PRO** copper tube is supplied in 50-metre coils marked at intervals also indicating the relative metres.

The core of the **CONDY PRO** is the **SILMET** copper tube manufactured according to the European standard EN 12735-1 and with a level of internal cleanliness that also complies with standard ASTM B280.

INSULATION DENSITY	:	45 kg/m^3
THICKNESS OF THE INSULATING SHEATH	:	from 7,5 a 10 mm
USAGE TEMPERATURE	:	-80 °C +120 °C
WATER VAPOUR DISPERSION COEFFICIENT	:	5482
THERMAL CONDUCTIVITY	:	0,0397 W · m^{-1} · K^{-1}
FIRE RESISTANCE	:	Class 1 (self-extinguishing)
WRAPPING	:	coils individually wrapped with transparent film giving further protection



CHARACTERISTICS OF THE ICE COPPER TUBE	
Alloy	Cu-DHP CW024A (Cu = 99.90% min. – P = 0.015 – 0.040%)
Physical state	Annealed
Unit tensile strength	220 MPa/mm^2 min.
Elongation percentage	40% min.
Internal cleanliness	C max. 0.20 mg/dm^2
Dimensions and tolerances	according to standard EN 12735-1
Internal surface roughness	RA 1/10 micron
Linear thermal expansion coefficient	0.00168 mm/m °C
Thermal conductivity at 20 °C	364 W/m k

TABLE OF DIMENSIONS OF THE SILMET CONDY PRO COPPER TUBE

dimensions without insulation mm	diameter with insulation mm	thickness of insulating sheath mm	bursting pressure MPa	operating pressure MPa	coil length m	water content per meter l/m
thickness 0,80 mm						
6,35 X 0,80 – 1/4"	18,35	6	56,54	14,14	50	0,0177
9,52 X 0,80 – 3/8"	21,52	6	37,71	9,43	50	0,0493
12,70 X 0,80 – 1/2"	28,70	8	28,27	7,07	50	0,0968
15,87 X 0,80 – 5/8"	35,87	10	22,62	5,66	50	0,1599
thickness 1 mm						
6,35 X 1 – 1/4"	18,35	6	70,68	17,67	50	0,0149
9,52 X 1 – 3/8"	21,52	6	47,14	11,79	50	0,0444
12,70 X 1 – 1/2"	28,70	8	35,34	8,83	50	0,0899
15,87 X 1 – 5/8"	35,87	10	28,28	7,07	50	0,1511
19,05 X 1 – 3/4"	39,05	10	23,55	5,89	50	0,2286
22,22 X 1 - 7/8"	42,22	10	20.20	5.05	25	0.3211

PALLETISATION OF SILMET CONDY PRO COATED COILS

measurement Ø x thickness mm	coil length m	coils per pallet n	meters per pallet m	approx. gross pallet weight kg	dimensions of pack cm
thickness 0,80 mm					
6,35 X 0,80 - 1/4"	50	16	800	128	h 220 X Ø 80
9,52 X 0,80 - 3/8"	50	14	700	162	h 220 X Ø 80
12,70 X 0,80 - 1/2"	50	15	750	225	h 220 X Ø 80
15,87 X 0,80 - 5/8"	50	12	600	227	h 220 X Ø 90
thickness 1 mm					
6,35 X 1 - 1/4"	50	16	800	150	h 220 X Ø 80
9,52 X 1 - 3/8"	50	14	700	190	h 220 X Ø 80
12,70 X 1 - 1/2"	50	15	750	290	h 220 X Ø 80
15,87 X 1 - 5/8"	50	12	600	288	h 220 X Ø 90
19,05 X 1 - 3/4"	50	10	500	285	h 220 X Ø 90
22,22 X 1 - 7/8"	50	20	500	328	h 220 X Ø 90

The packs cannot be stacked.
A maximum of 2 packs with a large diameter (h 220 x Ø 90 cm) and available for other coated products, are loaded onto the pallet side-by-side together with a third smaller pallet.
The others can be loaded side-by-side in threes.