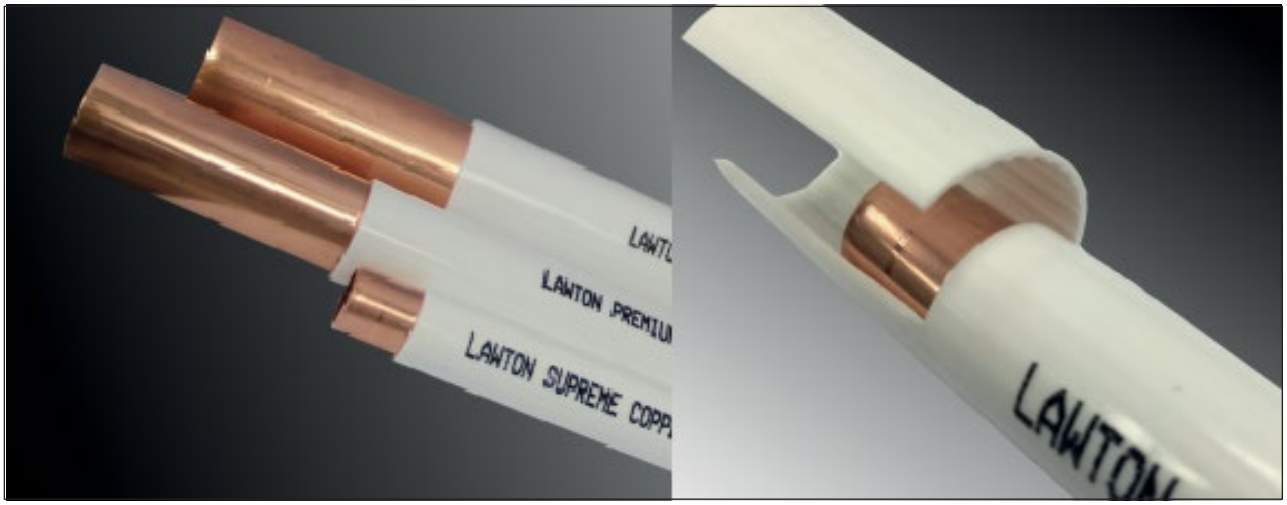
Plastic Coated Copper Tubes

Data Sheet



The Plastic Coating is a LDPE with a World Wide UV stabiliser.

Resistance to some common chemicals below:

Very good chemical resistance	Good Chemical Resistance	Medium Chemical Resistance	Poor Chemical Resistance
Acetatic acid Amonium hydroxide 30% Calcium hydroxide 30% Diethylene glycol Ethylene glycol Ethanol 100% Glycerin Glycol Hydrogen peroxide 30% Mercury Methanol Potassium hydroxide 30% Sodium hydroxide 30%	Acetone Formaldehyde 10-40% Gas oil Caproic acid Iodine Isobutanol Isopropanol Mineral oil Motor oil Natural gas Gasoline Phenol Tranformer oil Vaseline	Dibutylether Ethylene acetate 100% Furfurol 100% Heptane Paraffin	Diethylether Ethylenechloride Hydrogen peroxide 90% Methylene chloride
LDPE coating would have no chemical resistance from Acetylene dichloride			

The Physical properties are as follows:

Melting point:	114°C
Vicat Softening Point:	93°C (Maximum Operating Temperature)
Brittleness Point:	< -75°C
Hardness:	55 Shore D
Tensile Break:	13.40 MPa
Flexural Strength:	8.10 MPa
Elongation at Break	500%
Volume Resistivity	>1015 Ohm-cm³
Surface Resistivity:	>1015 Ohm-cm²

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This range is ideal for use within walls, outside, underground and in aggressive atmospheres. The covering creates a thermal barrier reducing heat loss underground and condensation from exposure in extreme weather conditions.

Tubes can withstand temperatures from -40 to +114°C and can be bent (except 35-54mm) and jointed as per standard plain EN1057 tubes using EN1254 fittings.
To expose bare copper, plastic coating needs to be cut and pulled back away from the joint and flame (if brazing). Once joint has been made coating needs returning back to original position and both joint and cut need to be protected using an impervious plastic tape. See Plastic Coated Copper Tube Installation Guide for specific details.

White PE Coated Copper Tubes to BS EN 13349 / BS EN 1057 R250/R290

Product Code	O.D. (mm)	Length (m)	Wall (mm)	PE Thickness
TXPEW015	15	3, 5.8 & 6	0.7	1.0
TXPEW022	22	3, 5.8 & 6	0.9	1.0
TXPEW028	28	3, 5.8 & 6	0.9	1.0
TXPEW035	35	3, 5.8 & 6	1.2	1.5
TXPEW042	42	3, 5.8 & 6	1.2	1.5
TXPEW054	54	3, 5.8 & 6	1.2	1.5
TXPEW067	67	3, 5.8 & 6	1.2	1.5
TXPEW076	76	3, 5.8 & 6	1.5	1.5
TXPEW108	108	3, 5.8 & 6	1.5	1.5

PVC Covered Coils to BS EN 1057 R220

Product Code	O.D. (mm)	Length (m)	Wall (mm)	PVC Thickness
TWPVCBLK008	8 PVC Black	25	0.8	1.0
TWPVCW008	8 PVC White	25	0.6	1.0
TWPVCW010	10 PVC White	25 & 50	0.7	1.0
TWPVCY015	15 PVC Yellow/Blue	25	1.0	1.5
TWPVCY022	22 PVC Yellow/Blue	25	1.2	1.5
TWPVCY028	28 PVC Yellow	20	1.2	1.5

PVC Covered Tube to BS EN 1057 R250

Product Code	O.D. (mm)	Length (m)	Wall(mm)	PVC Thickness
TXPVCY015	15 PVC Yellow	3 & 6	0.7	1.0
TXPVCY022	22 PVC Yellow	3 & 6	0.9	1.0
TXPVCY028	28 PVC Yellow	3 & 6	0.9	1.0

Green PE Coated Copper Tubes to BS EN 13349 / BS EN 1057 R250/R290

Product Code	O.D. (mm)	Length (m)	Wall (mm)	PE Thickness
TYPEG015	15	5.8 & 6	0.7 or 1.0	1.0
TYPEG022	22	5.8 & 6	0.9 or 1.2	1.0
TYPEG028	28	5.8 & 6	0.9 or 1.2	1.0
TYPEG035	35	5.8 & 6	1.0 or 1.5	1.5
TYPEG042	42	5.8 & 6	1.0 or 1.5	1.5
TYPEG054	54	5.8 & 6	1.2 or 1.5	1.5
TYPEG067	67	5.8 & 6	2.0	1.5
TYPEG076	76	5.8 & 6	2.0	1.5
TYPEG108	108	5.8 & 6	2.5	1.5

Plastic Coating Characteristics

Test	Unit	Lower Spec Limit	Upper Spec Limit
Tensile Strength	N/mm [kg/cm^2]	29.5^2 10 [3.2]	31.5^2 10 [3.0]
Elongation	%	70	100
Compression strain	% (25%)	3.4	6
Water absorbing capacity	G/m^2	0.003	0.008
Conductivity factor	W/(mk^2) [kcal/m^{2}hm^2]	0.038(0.033)	0.040(0.035)
Temperature of heat resistance	°C	-40	+114

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