



Insulative Tapes

Scapa Insulative cable wrapping tapes perform a wide variety of functions including sacrificial curing (autoclave curing), binding, bedding, separating, and core identification. They are also used for laminating to sheathing to improve performance in cold impact testing.

Whilst generally these products act as a barrier to extrudate penetration, versions are available with pinholes where the venting of volatiles is an important consideration.

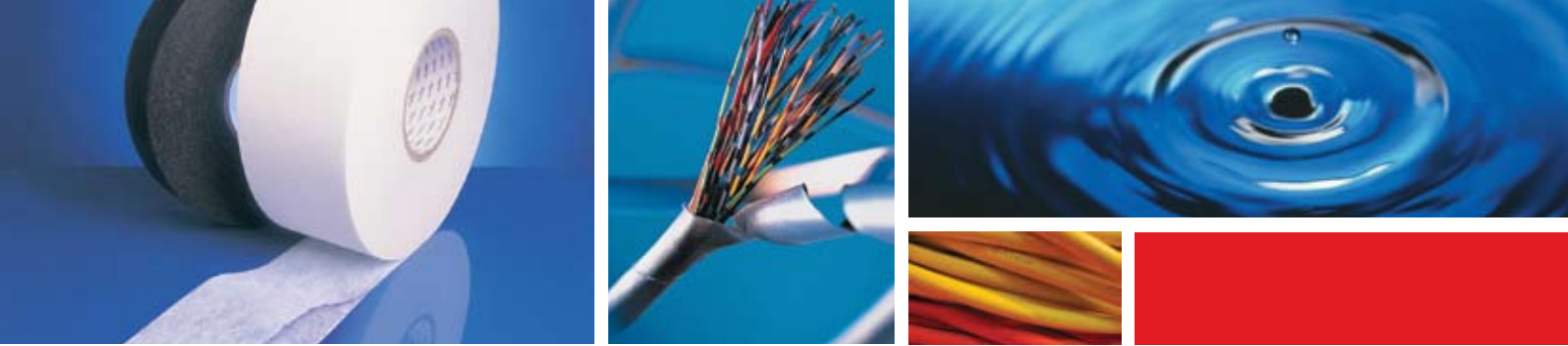
Using woven Nylons and Polyesters this range offers high strength performance when used for binding applications and includes BT1 Bituminised Hessian for armour bedding and lead sheath protection within paper insulated cables.

INSULATIVE TAPES					
CODE	CABLE TYPE/APPLICATION	TENSILE STRENGTH (N/cm)	WEIGHT (g/m ²)	SUBSTRATE	THICKNESS (mm)
CT22/65	General-purpose binding	>100	80	Woven nylon	0.10
CT90/80	General-purpose binding	>100	80	Woven polyester	0.10
CT84/80	General-purpose binding	>100	64	Woven polyester	0.11
CT50/113	Binding and bedding	>105	130	Woven polyester/nylon	0.17
BT1	Armour bedding and corrosion protection	>110	570	Woven hessian	0.80

Insulative Tapes – Key Features & Benefits

- Ensures concentricity of the cable is maintained during the vulcanisation of rubber elastomeric cables.
- Helps overall cable flexibility by letting the cores slide more easily against each other.
- Prevents over-extrusion material penetrating core gaps.
- Protects heat damage to core insulation by acting as a barrier to high temperature over-extrusion processes, e.g. lead or aluminium.
- Protects inner and outer sheaths from cutting in steel armoured cables.
- High tensile strength helps prevent bird-caging.

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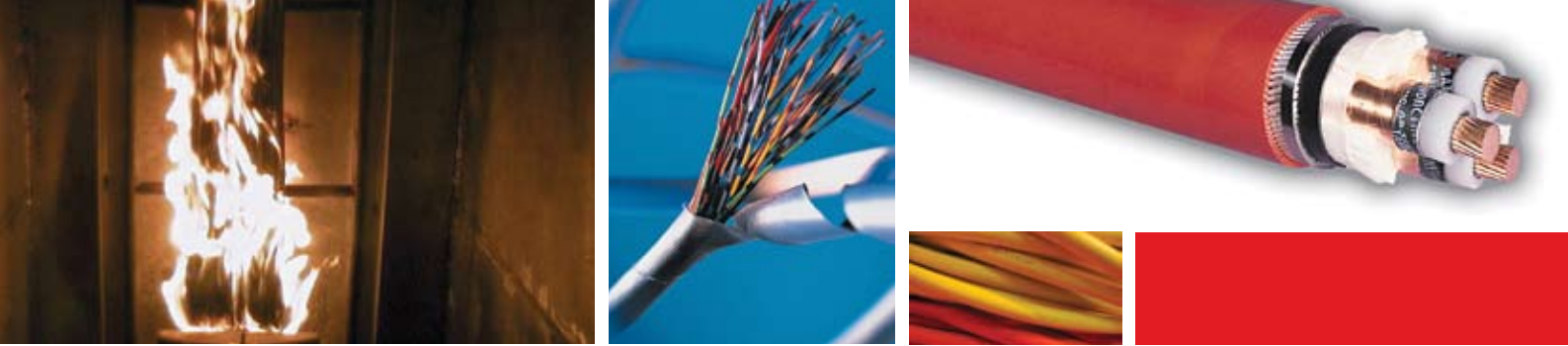
Water Swellable

Water Swellable tapes are designed to prevent water ingress into fibre optic, copper data/telecom and power cables.

Using superior super absorbent polymers (SAP) gives these tapes premium performance during the critical first minute of response to water. The SAP is laminated and evenly distributed between various non-woven materials so that all the SAP contributes efficiently to the water blocking properties of the tape. Water swellable tapes are available in insulative, semi-conductive, laminated and marine versions to suit the cable application.

WATER SWELLABLE						
CODE	CABLE TYPE/APPLICATION	SWELLING HEIGHT (1 min/mm)	SWELLING HEIGHT (10 min/mm)	TENSILE STRENGTH (N/cm)	WEIGHT (g/m ²)	THICKNESS (mm)
WSD242	INSULATIVE General-purpose water blocking	10	11	25	65	0.28
WSD244		20	20	25	85	0.30
WSD251		6	7	25	60	0.25
WSD252		10	11	25	65	0.28
WSD253		15	17	25	76	0.28
WSD282		10	11	40	87	0.36
WSD284		20	21	40	110	0.40
WSD291		HIGH STRENGTH INSULATIVE Water blocking for helical application	6	7	50	72
WSD292	10		11	50	77	0.36
WSD293	14		15	50	88	0.38
WSD294	20		21	50	97	0.40
WSC241	SEMI-CONDUCTIVE General-purpose core screen water blocking	6	7	30	76	0.21
WSC242		10	11	30	90	0.25
WSC243		15	17	30	95	0.28
WSC244		21	22	30	100	0.30
WSC291	HIGH STRENGTH SEMI-CONDUCTIVE Water blocking core screen for helical application	6	7	50	91	0.34
WSC292		10	11	50	96	0.35
WSC293		14	15	50	110	0.39
WSC294		20	21	50	120	0.40
WSL2250	LAMINATED Swell tape with PET film to prevent migration of gel filling or platiciser	3	5	25	65	0.26
WSL2252		5	7	25	75	0.25
WSL3252		7	9	55	110	0.30
WSM102	MARINE cable water blocking	1.3	1.5	25	82	0.40

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Fire Retardant Tapes

Scapa Fire Retardant tapes function as a fire barrier to meet more demanding fire propagation and fire survival requirements.

These tapes are based on a finely woven glass substrate, which has intrinsic fire retardant properties, and the surface coating also gives weave stability. All of these tapes are free from halogens and sulphur.

The high tensile strengths give the additional benefit of excellent binding properties. There is a semi-conducting version available to complement the rest of the insulative range.

FIRE RETARDANT					
CODE	CABLE TYPE/APPLICATION	TENSILE STRENGTH (N/cm)	WEIGHT (g/m ²)	SUBSTRATE	THICKNESS (mm)
FR14/103	Fire retardant, fire barrier	>200	140	Woven glass	0.10
FR21/103	Fire retardant, fire barrier	>200	130	Woven glass	0.10
FR22/103	Fire retardant, fire barrier	>200	140	Woven glass	0.11
FR22/109	Fire retardant, fire barrier	>300	240	Woven glass	0.20
FR4019/205	Bedding, binding, identification and protection	>80	240	Polyester viscose stitch bonded fabric	0.55
FR62/103	Fire barrier and electrical core screen	>200	125	Woven glass	0.11
SFR10/103	Superior fire retardant	>200	140	Woven glass	0.12

Fire Retardant Tapes – Key Features & Benefits

- Acts as a barrier between the flame and the combustible core/insulation within the cable.
- Retains the integrity of the cable during and after exposure to fire.
- Extends the fire-survival time of the cable and its functions.
- High tensile strength aids bonding and prevents bird-caging.
- Used in cables designed to meet IEC60332-3 Category A and IEC331.
- Available in widths, inside and outside diameters, and lengths to suit the cable manufacturers individual requirements.

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Semi-Conductive Tapes

Scapa Semi-Conducting tapes perform electrical functions within a cable. Their primary function is to equalise the field current around the conductor or core and to ensure electrical contact with the earthing system. This reduces the electrical stress on the insulation material and enhances performance. They can also be used to prevent electrolytic corrosion of metallic armour layers.

Our range of semi-conducting tapes offer excellent solutions for both core and conductor screening. They prevent extrudate penetration of the conductor wires, and with high tensile strength and abrasion resistance, help to prevent 'birdcaging' through strong binding properties. The range also incorporates tapes which have first class bedding characteristics, and are available in a plain or printed format.

All of these tapes are free from halogens and sulphur to improve fire safety and prevent copper staining.

SEMI-CONDUCTIVE					
CODE	CABLE TYPE/APPLICATION	TENSILE STRENGTH (N/cm)	WEIGHT (g/m ²)	SUBSTRATE	THICKNESS (mm)
SC36/65	Core screening	>100	62	Woven nylon	0.10
SC101/80	Core screening	>100	65	Woven polyester	0.09
SC39/70	Core screening	>500	200	Woven polyester	0.30
SC37/65	Core conductor screening	>100	75	Woven nylon	0.11
SC37/90	Core screening	>120	84	Woven nylon	0.13
SC24/200	Bedding grade	>200	135	Woven nylon	0.20

Semi-Conductive Tapes – Key Features & Benefits

- High electrical conductance.
- Robust, abrasion resistant construction to withstand the cable making process.
- Good long term temperature stability (90°C operating temperature, 130°C short term during fault loads).
- Conformable to ensure good contact with the conductor or core.
- High tensile strength and tear resistance to allow high speed lapping and for binding cores together.
- Good temperature stability to withstand oversheathing.
- Good penetration resistance to prevent strike-through of the insulation or extruded semi-conductive layers.
- Can be printed for core identification.

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