ANTI-RODENT + CABLE FIRE PROTECTION

WHERE RODENTS START FIRES

Fourteen industries, grouped not by who has rodents — everyone has rodents — but by where a rodent bite becomes **a fire, a shutdown or a death.** A rat gnaws to wear its teeth down, not to eat. It strips the insulation and leaves. **The fire starts after it has gone.**

WORLD FIRST

THE WORLD'S FIRST INTUMESCENT CABLE COATING THAT IS TRANSLUCENT, FLEXIBLE AND ANTI-RODENT.

CERTIFIED — FIRE

IEC 60332-3 — 120 MINUTES

Category A vertical tray test at CBRI. Flame held for two hours against a coated cable bunch.

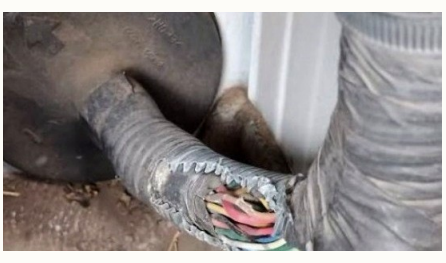
CERTIFIED — RODENT

RDSO/SPN/204 ANNEXURE G — RATED SAFE

NABL laboratory. Thirty-day choice test: zero bites on the coated cable, nineteen on the uncoated control. Every rodent alive and healthy throughout.

Rodent gnawing a cable run — the incisors reach the conductor in a single sitting

Insulation stripped to bare cores — none of it is eaten



Bitten through to the conductor — bare copper where the sheath was

WHERE THE FOOD IS

Rodent pressure highest, and never seasonal

	INDUSTRY	WHY THE RODENTS ARE THERE	WHERE TO COAT
01	FOOD PROCESSING, DAIRY & BEVERAGE	The product is food. Spillage, wash-down warmth, motor rooms running around the clock.	Trays over the production and packing lines · MCC and panel room interiors · utility and chiller corridors
02	GRAIN, SUGAR, RICE & FEED MILLS	Stored grain is the densest rodent habitat in Indian industry.	Conveyor gallery runs · silo and elevator wiring · mill floor panels and DBs
03	COLD STORAGE & WAREHOUSING	Warm plant rooms beside chilled halls. Almost nobody there at night.	Compressor and plant room runs · racking-level conduit · dock and dispatch panels
04	PHARMACEUTICAL & FMCG	Service voids, false ceilings and shafts above clean rooms.	Shaft runs above clean areas · service void cabling · AHU and utility panel interiors

WHERE PEOPLE CANNOT WALK OUT

Occupants asleep, seated, immobile or underground

	INDUSTRY	WHY THE RODENTS ARE THERE	WHERE TO COAT
05	HOSPITALS & HEALTHCARE	Kitchens, waste rooms, laundry and round-the-clock warmth. Rodents travel the same shafts and false ceilings as the cabling.	Riser shafts · false ceiling runs over wards and corridors · ward, OT and diagnostic DBs
06	HOTELS, MALLS & CINEMAS	Kitchens and garbage rooms feed the whole building. Rodents then take the services shafts.	Kitchen and back-of-house runs · vertical services shafts · basement car park trays
07	HIGH-RISE COMMERCIAL & RESIDENTIAL	Basements, refuge floors and riser shafts run the height of the building.	Riser shafts · basement cable trays · floor DB and meter room interiors
08	RAILWAYS, METRO & AIRPORTS	Signalling troughs, tunnels, station voids, platform catering, cargo sheds.	Signalling and telecom trough runs · tunnel and station void cabling · cargo shed trays

WHERE THE LOSS IS TOTAL

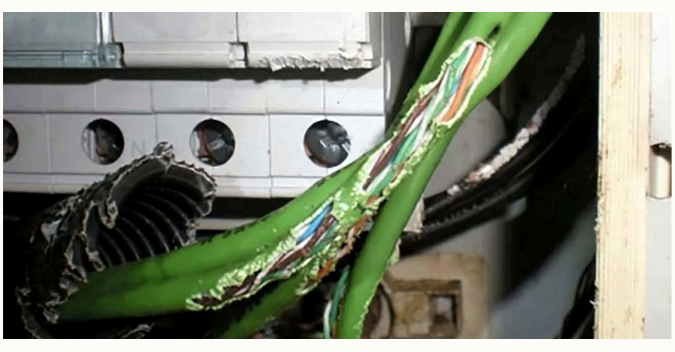
One origin point takes the whole installation

	INDUSTRY	WHY THE RODENTS ARE THERE	WHERE TO COAT
09	DATA CENTRES & TELECOM EXCHANGES	Under-floor voids and ceiling plenums are sheltered, undisturbed routes.	Under-floor and plenum runs · tray routes feeding the racks · MDB and UPS room cabling
10	SUBSTATIONS & CABLE BASEMENTS	Trenches, ducts and burrows under the switchyard. Basements are dark, warm and rarely entered.	Basement and trench runs · duct and gland entries · control and relay panel interiors
11	SOLAR PLANTS & BATTERY STORAGE	Rural sites. Burrows under module rows; string and DC cable at grade.	String and DC cable at grade · combiner box interiors · inverter and battery room runs
12	REFINERIES, PETROCHEMICAL & FERTILISER	Mains are armoured. Control and instrumentation cable, panel interiors and tray runs are not.	Control and instrumentation trays · panel and junction box interiors · sleeper crossings
13	STEEL, CEMENT, MINES & HEAVY INDUSTRY	Canteens, stores and substation rooms carry the rodent load into the plant. Pit-head and workshop equipment is cabled throughout.	MCC and substation room runs · exposed control cabling · DB, starter and machine panel interiors

AND AT HOME

The same bite, on the wiring behind your wall

	INDUSTRY	WHY THE RODENTS ARE THERE	WHERE TO COAT
14	HOMES & APARTMENTS	You have seen a rat in your house. You have never seen the wire it has already opened.	Meter room and distribution board · false ceiling runs · AC, cooler and UPS wiring · kitchen and utility cabling



Chewed cores inside a distribution panel — insulation gone, conductors bare, the board still live

The bite before it is found — damage above a false ceiling is not seen until the circuit trips

THE GAP NOTHING ELSE CLOSES

PEST CONTROL PROTECTS THE ROOM. IT CANNOT PROTECT THE CABLE.

Every plant on this list already pays a pest-control contractor. He baits, traps and seals the room — and has never touched the one surface that actually starts the fire. **EC 7034 is the only defence at the cable itself — and it is the same coat that stops the fire the bite would have started.**

AND IT DOES NOT STOP AT THE CABLE RUN

TWO MORE PLACES THE SAME COAT EARNS ITS KEEP.

01 — INSIDE THE ENCLOSURE

WHERE A BITE HAS NOWHERE TO VENT

Panels, junction boxes, distribution boards, control cabinets, machinery and mining-equipment enclosures. The rodent gets in by the same route the cable does — the gland, the knockout, the cutout at the base. Inside a closed box the bite it leaves behind arcs against everything packed around it.

Coat the wiring and the exposed surfaces inside. **The rodent is turned away at the film**, and if a fault still starts — from a rat, or from a loose termination — **the coating denies the wiring as fuel, so flame does not travel out of the box along the cable and down the tray.**

02 — OVER AN EXISTING FIRE COAT

ALREADY FIRE-COATED IS NOT RODENT-PROTECTED

Most plants that took cable fire protection seriously years ago already carry a water-based intumescent coating on their indoor runs. **That coating carries no anti-rodent protection at all.** It is not tested under RDSO/SPN/204 Annexure G, it holds no rodent rating, and it claims none. The run is fire-protected and rodent-unprotected — and has been for years.

EC 7034 goes on over that coating — **indoor cable trays, cellars, basements, riser shafts, galleries and plant rooms** — 0.5 mm, in two coats. Nothing is stripped, nothing is re-pulled, nothing goes out of service. The plant keeps the fire coat it has already paid for, and gains the one defence that coat never had.

Indoor installations. Over an existing coating, the old film must be sound and adhered, and a compatibility trial made on a representative length before the work is released. Fixed wiring and enclosure interiors — not the flexing length of drag-chain or trailing cables. Fire and rodent ratings stated on this sheet are for FIREX EC 7034 as tested at 1.5 mm direct to cable; the 0.5 mm overcoat build is an application recommendation. Ratings are not additive with another manufacturer's coating.

HOW IT GOES ON

BRUSH OR SPRAY

Applied to cable already in place. No rewiring, no re-pulling, nothing replaced.

STAYS READABLE

The film is translucent, so markings, colours and phase identification remain visible.

STAYS FLEXIBLE

The cable still bends and can still be worked. Protection is at the certified film build.

DENIES THE CABLE SHEATHING AS FUEL — NO FUEL, NO FIRE. AND THE RAT THAT STRIPS THE INSULATION IS TURNED AWAY, SO THAT FAULT NEVER STARTS.

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