

Dätwyler Cables

*Comprehensive safety concepts
for building applications*



pyrofil[®]
pyrosys[®]

Experience, know-how, competence, quality and safety

pyrofil® for safety

Fire reaction

Dätwyler is the first European manufacturer to develop a system solution – pyrosys® – that meets the demands of today's industry for reliable power supply and data transmission in the event of a fire. pyrosys® is the result of many years of intensive development in coordination with the relevant standardization bodies.

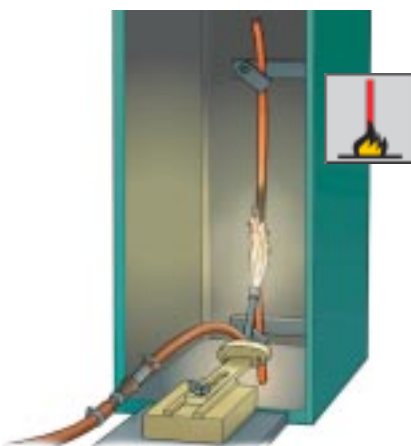
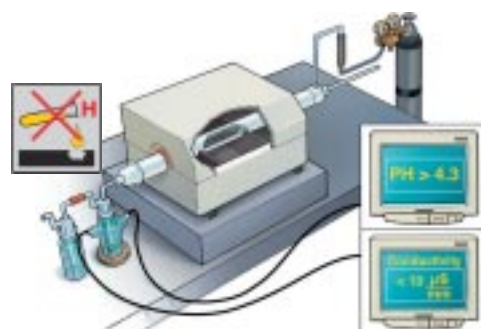
Selected raw materials and special compounds in combination with unique installation methods are what give pyrosys® its high quality and maximum guaranty of safety in the event of a fire.

pyrosys® is used wherever people, machinery and equipment are endangered by fire and smoke emission. In buildings with high density of occupants as well as in facilities containing large concentrations of valuable property.

pyrosys® safety cables and systems have to be highly reliable when it comes to practical operations. This is why Dätwyler measures each and every product against strict quality standards before it leaves the company. Specifically, this means that all processes are integrated into the comprehensive management system according to ISO 9001 and ISO 14001. Beyond this, additional applicationspecific inspection and test methods ensure that pyrosys® cables and systems exceed the requirements of our customers as well as the stringent standards specified by the various countries in which our products are used.

Corrosion test of fire gases

- IEC 60754-2
- EN 50267
- DIN VDE 0482-267
- (BS 6425-2)



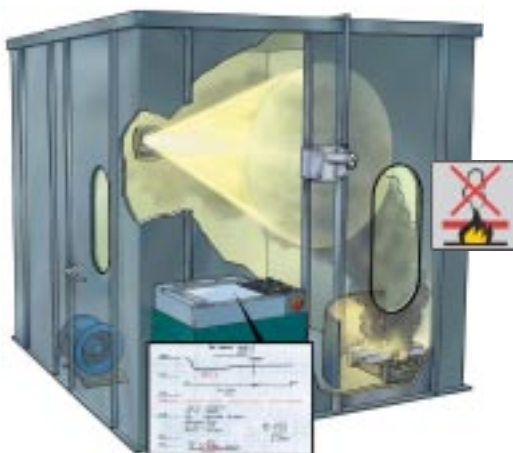
Test of Burning behaviour of a single tube or cable

- IEC 60332-1
- (EN 50265-2-1)
- New: EN 60332-1
- (VDE 0482-265-2-1)
- New: VDE 0482-332-1
- (BS 4066-1)



Test of Burning behaviour of a cable bundle

- IEC 60332-3 cat. A/B/C/D
- EN 50266-2-4
- VDE 0482-266-...
- (BS 4066-3)

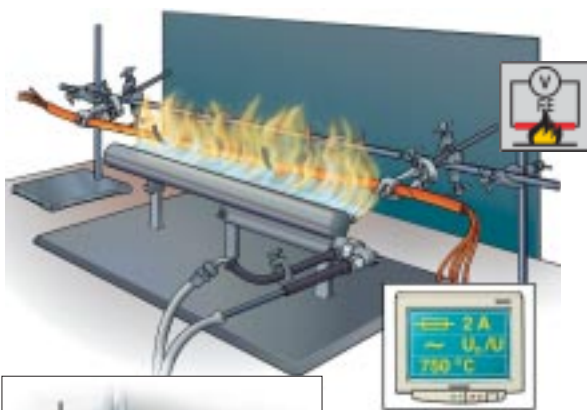


Testing of smoke density

- IEC 61034
- (EN 50268)
- Neu: EN 61034
- (VDE 0482-268)
- Neu: VDE 0482-1034
- (BS 7622)

Fire resistance

Fire characteristics



Testing for insulation integrity

- IEC 60331 (FE)
- BS 6387 (cat. C)
- (VDE 0472 Teil 814)



pyrofil® cables are halogen-free and minimise the possibility of damage to health or property.



pyrofil® cables consist of high-grade, flame retardant materials which are self-extinguishing.



pyrofil® cables are flame retardant and prevent the propagation of a fire from one location to another.



pyrofil® cables only emit minimum smoke, ensuring escape routes are kept clear.



pyrofil® cables are fire resistant and guarantee insulation integrity of a single cable to recognised international standards.



Pyrofil cables in combination with corresponding fixing devices guarantee the function of complete electric cable systems over a defined period of time.



Testing for insulation integrity (fire and water spray)

- BS 6387 (cat.W)



Testing for insulation integrity (fire and mechanical shock)

- EN 50200
- EN 50362
- (BS 6387 (cat.Z))

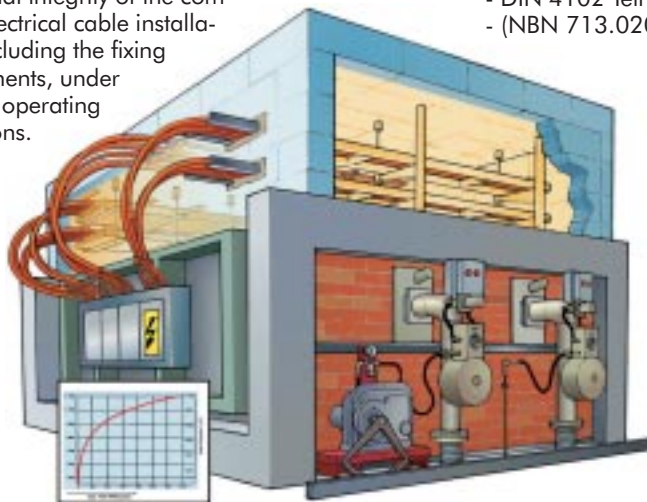
Better than the standard!

This test (E30-E90) is now the world wide standard for guaranteeing functional integrity of the complete electrical cable installation, including the fixing components, under normal operating conditions.



Testing of circuit integrity of complete electric cable systems

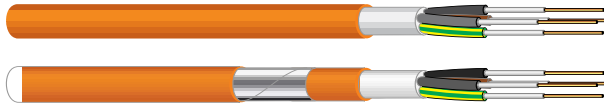
- DIN 4102 Teil 12 (E30-E90)
- (NBN 713.020 (Rf1, Rf1 1/2))



Cable technology for highest safety requirements

Safety cables with circuit integrity

Low voltage cables up to 0.6/1 kV
E30-E90; FE180; EN 50200; NBN 713.020 Rf1 1/2



with mechanical protection



Applications

Safety cables with insulation and circuit integrity to maintain power supplies to sprinkler systems, emergency lighting, smoke and heat extraction systems, emergency lift supplies and fire fighting lifts.

Product range

Single core cables from 1.5 mm² to 630 mm²
Multi core cables from 1.5 mm² to 300 mm²
Also available with mechanical protection

Standards/Approvals
IEC, EN, CENELEC, BS, DIN VDE, SEV, NBN, VKF, VdS, GOST-R

Wiring and Fire alarm cables up to 225 V
E30-E90; FE180; BS 6387 CWZ, EN 50200



with mechanical protection



Applications

Safety cables with insulation and circuit integrity to maintain power supplies and data transmission to fire alarm systems, public address and voice alarm systems.

Product range

Single or multi pair cables, individually or collectively screened. Also available as fire alarm cable and with mechanical protection.

Standards/Approvals
IEC, EN, CENELEC, DIN VDE, SEV, NBN, GOST-R

optofil®-Safety fibre optic safety cables according to DIN 4102-12 30 Min. (E30); IEC 60331-25



Applications

Universal fibre optic cables with circuit integrity for indoor and outdoor applications.

Product range

Loose tube construction with up to 12 SM-/MM-fibres with non-metallic rodent protection.

Standards/Approvals
IEC, EN, CENELEC, DIN VDE

Safety cables with insulation integrity

Fire alarm cables 300/500 V
BS 6387 CWZ; FE180; BS EN 50200; BS 8434-1; BS 8434-2



Applications

Safety cables with insulation integrity to maintain power supplies and data transmission to fire alarm systems, emergency lighting, public address and voice alarm systems.

Product range

Screened multi core cables from 1.0 mm² to 6 mm². Also available with mechanical protection.

Standards/Approvals
BS, EN, CENELEC, LPCB, GOST-R

Safety cables with improved characteristics in case of fire

Low voltage cables up to 0.6/1 kV



Applications

Safety cables with improved characteristics in case of fire. The alternative to traditional PVC cables, where no insulation or circuit integrity is required.

Product range

Single core cables from 1.5 mm² to 630 mm²
Multi core cables from 1.5 mm² to 300 mm²
Also available with mechanical protection and as flexible, oil resistant version.

Standards/Approvals
IEC, EN, CENELEC, DIN VDE, SEV, GOST-R

Single clamps, multi cable supports



Single clamps to install single cables or cable bundles conforming to common practice.

Multiple cable supports for a cost effective installation of several cables.

These components facilitate the quick and easy retrospective installation of cables.

Support systems



Special support systems to install several cables conforming to common practice.

Approved for ceiling and wall mounting with possibility of easy retrospective installation of cables.

Corresponding fixing devices, such as fire safety dowels, installation screws and setting tools are available for all support systems.

Connecting technology



Cable joints to connect pyrofil® safety cables with circuit integrity.

Distribution boxes with circuit integrity E30-E90. Also available as fire resistant covers to protect standard connection or junction blocks.

Distribution boxes with circuit integrity for high- and low-voltage cables.

Firestop systems



Firestop systems S90/S120

- Firestop coated board S100 P
- Intumescent firestop paint S100 D
- Intumescent firestop mastic S100 SM-K
- Firestop bricks TS 90
- Firestop plugs TS 90

Seminars

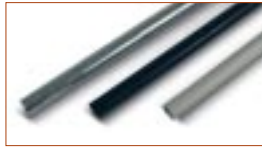
Dätwyler is setting new standards. pyrofil® safety cables combined with pyrosys® system components make up the perfect and cost effective safety solution.



Dätwyler regularly holds seminars on cabling systems with integrated circuit integrity as well as on firestop systems.

For further informationen please visit www.daetwyler-cables.com

pyrosys®
Steel conduits
and halogen-free
plastic conduits



pyrosys®
Fire protection plugs F90
Installation depth 30mm



pyrosys®
Single clamps
Type SAS
Spacing ≤ 600mm



pyrosys®
Fire resistant
covers AHD and
distribution boxes
E30/E90



pyrosys®
Strap clamps
without trough Type B
Spacing ≤ 800mm



pyrosys®
Strap clamps
with trough
Type B
Spacing
≤ 800mm



pyrosys®
Identification
signs

pyrofil®
Safety cable E90 Keram

pyrosys®
Gas concrete plugs F90

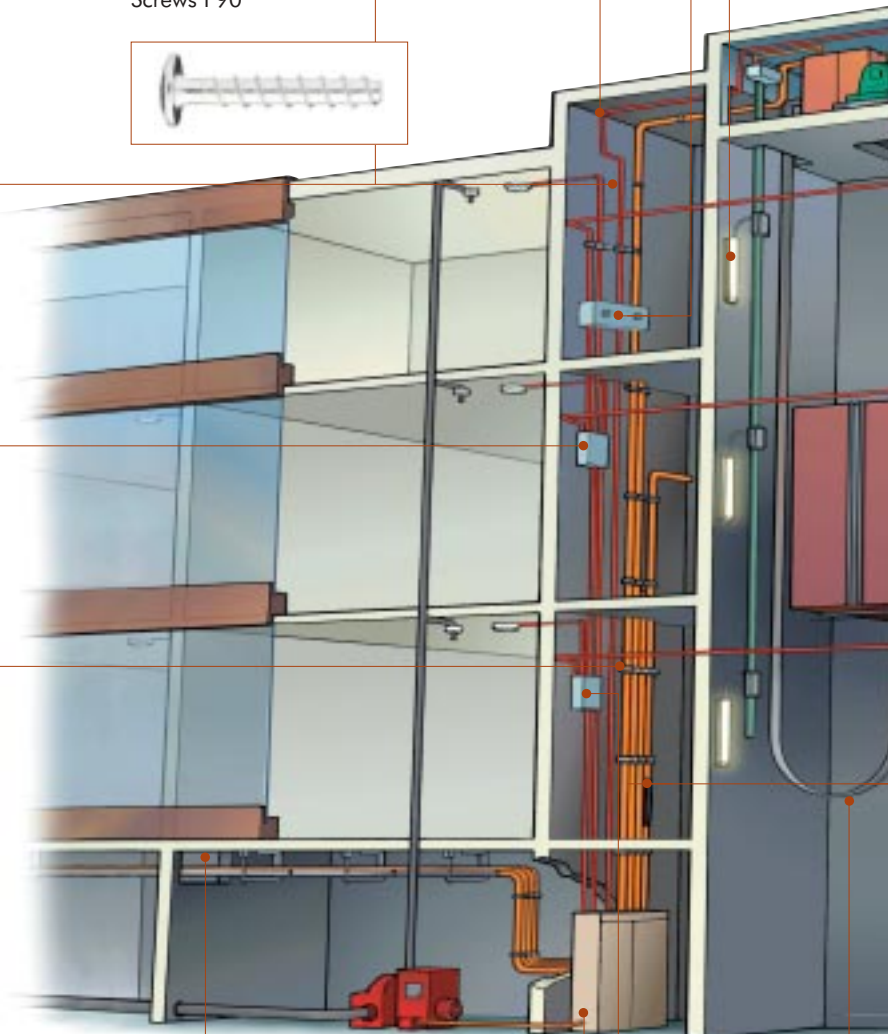


pyrosys®
Screws F90



pyrofil®
WUM
Support measure

dynofil®
modular shaft
lighting system



pyrosys®
Firestop systems S90/S120
Plates/Mortar/Bricks/Plugs

dynofil®
Elevator
travelling cables



pyrofil®
Safety cables
E90 Keram

pyrofil®
Safety cables
E30-E60 Keram



pyrosys®
Emergency lighting
for escape routes



ecobus®
Flat form cable with
integrated data bus



pyrosys®
Cable joints E30
and E90 for all
dimensions



pyrosys®
Multi cable support
"Hermanschelle" E30/E90
Spacing ≤ 600/800mm



pyrosys®
Connection/terminal box
E30-E90



pyrosys®
Cable trays and
cable ladders E30/E90
Spacing ≤ 1500mm



optofil®-Safety
Fibre optic life safety
cable, according to
DIN 4102-12, 30 Min.

pyrosys®
Distribution box E30-E90
Type "Hercules"



Switzerland

**Headquarters
Daetwyler Cables
Unit of Daetwyler Switzerland Inc.**

Gotthardstrasse 31
CH-6460 Altdorf
Telephone + 41 41/875 11 22
Fax + 41 41/875 18 70

info.ch@daetwyler-cables.com
www.daetwyler-cables.com

**Sales Switzerland
Daetwyler Cables
Unit of Daetwyler Switzerland Inc.**

Gotthardstrasse 31
CH-6460 Altdorf
Telephone + 41 41/875 12 68
Fax + 41 41/875 19 86

info.ch@daetwyler-cables.com
www.daetwyler-cables.com

Kaved AG

Gotthardstrasse 31
CH-6460 Altdorf
Telephone + 41 41/875 38 00
Fax + 41 41/875 38 39

verkauf@kaved.ch
www.kaved.ch

Germany

Dätwyler Kabel+Systeme GmbH

Gottfried-von-Cramm-Strasse 1
DE-85375 Neufahrn
Telephone + 49 8165/95 010
Fax + 49 8165/95 01 130

info.de@daetwyler-cables.com
www.daetwyler-cables.com

Dätwyler Kabel+Systeme GmbH

Auf der Roos 4-12
DE-65795 Hattersheim
Telephone + 49 6190/88 800
Fax + 49 6190/88 80 80

info.de@daetwyler-cables.com
www.daetwyler-cables.com

Austria

Dätwyler Kabel+Systeme GmbH

Tenschertrasse 8
AT-1230 Wien
Telephone + 43 1/810 16 41-0
Fax + 43 1/810 16 41-35

info.at@daetwyler-cables.com
www.daetwyler-cables.com

Italy

Daetwyler Cables

CELDIS Srl
Via Ferrarin 49/1
I-36022 San Giuseppe di Cassola (VI)
Telephone + 390424/37276
Fax + 390424/382427

info@daetwyler-cables.it
www.daetwyler-cables.com

Great Britain

Dätwyler (UK) Ltd

2 Marshall Road
Hillmead
GB-Swindon, Wiltshire SN5 5FZ
Telephone + 44 1793/898 400
Fax + 44 1793/898 401

info@datwyler.co.uk
www.daetwyler-cables.com

China

Dätwyler Cables+Systems (Shanghai) Co. Ltd

Building 16, No. 1-111, Kang Qiao Dong
Road
Kang Qiao Industrial Zone, Pudong
CN-201319 Shanghai, P. R. China
Telephone + 86 21/6813 0066
Fax + 86 21/6813 0298

info@datwyler-china.com
www.datwyler-china.com

Dätwyler (Suzhou) Cabling Systems Co. Ltd

Block 31, #15 Dong Fu Road
Suzhou Singapore Industrial Park
CN-215123 Suzhou, P. R. China
Telephone + 86 512/6265 3600
Fax + 86 512/6265 3649

sales.harnessing@datwyler-china.com
www.datwyler-china.com

Singapore

Dätwyler (Thelma) Cables+Systems Pte Ltd

29 Tech Park Crescent
SG-638103 Singapore
Telephone + 65 6863 1166
Fax + 65 6897 8885

sales@datwyler.com.sg
www.daetwyler-cables.com