



Oil & Gas

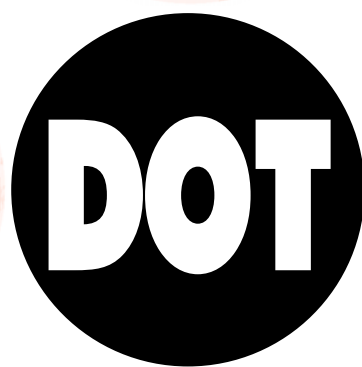
Petrochemical

Power

Renewable Energy

Ship Building

Building Services



group
international

Product Brochure

Electrical, Instrumentation,
Mechanical & Safety Labelling
& Identification Solutions



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DOTgroup International

Who we are?

DOTgroup International is the UK's leading independent manufacturer and supplier of Electrical, Instrumentation, Mechanical and Safety Labelling and Identification Solutions.

Since its formation in January 2001, DOTgroup International has continually reinvested profit into a programme of improvement and growth, and is now established as one of the major Labelling and Identification Solution Providers in the world today in the following industries:

• **Oil & Gas** • **Power** • **Ship Building** • **Petrochemical** • **Renewable Energy** • **Building Services**

DOTgroup International have supplied and supported some of the most high profile projects around the world and has regularly been selected as the nominated, preferred or specified supplier to an enviable list of Blue Chip clients. For further information on projects which DOTgroup International have previously supplied, please see our Project Portfolio on pages 4, 5 and 6.



What we do?

On-site Installation, Training & Support

DOTgroup International manufacture a range of cable and core marking systems and engraving machines, which enable remote project sites around the world the ability to produce all labels and signs on-site and be totally self-sufficient. Where possible, on-site installation and training by a fully trained DOTgroup International Engineer will be offered to every project and site which purchase our systems and consumables. Where access to site is not possible training will be offered via remote access software or video conferencing.

Bespoke Solutions

With our extensive in-house manufacturing and warehousing facilities, DOTgroup International has the ability to manufacture and supply bespoke labels and signs exactly to our clients' specifications. As well as offering alternative solutions, we will also advise our Clients of the most appropriate materials to use in the various extreme environments around the world. Please contact us with any enquiries for bespoke labelling and identification products.

Pre-Printed Labelling Service

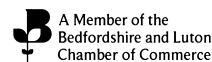
The entire range of labels manufactured by DOTgroup International can be supplied and delivered direct to site pre-printed. Simply send the information to be pre-printed electronically, in an Excel spreadsheet, to our in-house production facility at the email address below and, dependant on quantity required, delivery should take place within 24 - 48 hours. Information can be typed and pre-printed from drawings by arrangement.

Dual Language Labels & Signs

DOTgroup International has the ability to manufacture and supply dual language labels, signs and pipeline identification tape in a variety of different languages. Translation services can also be offered by arrangement. Please contact us with any enquiries which require our translation services for the manufacture of dual language labels, signs or pipeline identification tape.

Professional Affiliations

DOTgroup International has attained the ISO 9001:2008 Quality Management Systems and the ISO 14001:2004 Environmental Management Systems Accreditations, is a Member of the Energy Industries Council (EIC), is registered with First Point Assessment Ltd (FPAL), Link-up empowered by Achilles, Maritime Suppliers and is also a Member of the Bedfordshire and Luton Chamber of Commerce.



Credit Card, Debit Card & Purchase Card Facilities

DOTgroup International can accept payments from the following Credit Cards, Debit Cards and Purchase Cards enabling us to deliver enhanced data as required / requested by the cardholder.





Project Portfolio



DOTgroup International Project Portfolio

Oil & Gas

Conoco Phillips Jasmine

Conoco Phillips / Worley Parsons / Dragados / EMTE

Esso Highlands PGLNG

CB&I

Australia Pacific AP LNG

Bechtel

ATP Cheviot

ATP / Bluewater / Mustang Eng

Chevron Jack St Malo

Mustang Engineering / MMR

Chevron Big Foot

Kellogg Brown & Root / MMR

BP Clair Ridge

BP / Amec / Hyundai Heavy Industries

Chevron Greater Gorgon LNG

Kellogg Brown & Root / CB&I / Kentz

Santos Gladstone LNG

Fluor / Bechtel

ENL Chayvo OPF Expansion

Exxon Neftegaz / Fluor

ENL Odoptu Well Expansion

Exxon Neftegaz / Fluor / Kentz

ENL Arkutan-Dagi

Exxon Neftegaz / Worley Parsons / Fluor

Nexen Golden Eagle

CB&I / Lamprelle

ENL Orlan Platform

Exxon Neftegaz / Fluor

Storengy Stublach Gas Storage

GDF Suez / Jacobs / Fabricom / Interserve

Odebrecht Norbe VI

Single Buoy Moorings

Odebrecht Delba III

Single Buoy Moorings

GDF Suez Cygnus Gas Field

Amec / Heerema / Bi-Fab

Total Laggan Tormore Gas Plant

Petrofac / Randridge / GA Barnie

Chevron Wheatstone LNG

Bechtel

Exxon Mobil / Shell

West Qurna One
Exxon Consortium / Fluor

Inpex Ichthys LNG

Inpex

Centrica Rivers Acid Gas

Terminal – SSE

Total Lindsey Oil Refinery

Total / Fabricom / El WHS

Scira Offshore Energy

Sheringham Shoal
Heerema Hartlepool

Shell Leman

Shell / AMEC

Encana Deep Panuke

SBM Offshore

BP Project Aurora

BP / 80:20

Blue Water FPSO

GOT

BP Sullom Voe

Hobre

Centrica St Fergus Gas Terminal

SSE Contracting

Kirriemuir Compression

Terminal – SSE Contracting

West Elara

Calder Pressure Systems

BP Andrew

Heerema Hartlepool / MacLean
Electrical

Total Elgin

Total E&P

Talisman Montrose

Hertel

BP Easington Gas Terminal

Costain

Shell Majnoon Development

MacLean Electrical / Dron & Dickson

BP Quad 204

Hobre

Sipchem AA-VAM-U2 Project

S A Kentz

Seadrill West Orion

Benwin / Jurong

Talisman Energy

YME Oilfield Abu Dhabi
SBM / iNe / Al Masood Bergum

BG Tunisia Miskar-B Platform

Consafe

BP Dimlington Gas Terminal

PSN / GTC Group

Shell Koula Gabon

Wilson Mohr / Exterran

Hunt Oil Peru LNG

CB&I / GyM

South Hook LNG

CB&I / Watson Norie / Sepam / SES

Noble Drilling Noble Jim Day

Benwin / Jurong

BG Group / Petronas / 4Gas

Dragon LNG - Balfour Kilpatrick

Exxon Mobil Adriatic LNG

Aker Kvaerner / Dragados

Fred Olsen Energy Blackford

Dolphin - Croon

National Grid Felindre Gas

Compressor Station - Amec

Vopak Terminal London

PME Carillion

PetroMena ASA PetroRig III

Benwin / Jurong

BP Clair Platform

Amec / Heerema Hartlepool

BP In-Salah Gas Project Algeria

MW Kellogg

Rowan Drilling Gorilla 7

McNulty Offshore

British Gas Juno

Heerema Hartlepool

Conoco Philips Judy / Joanne

Conoco Phillips

Chevron Okan Project

KYE

Shell Goldeneye Onshore

Watson Norie

Petrojack Jack Up Rig

Benwin / Jurong

AGIP / KCO Kashagan Oil

Refinery - Parsons

BP Rhum Gas Field

Amec

Libyan Gas Western Libya Gas

Project - AGIP / Hyundai

Grain LNG Isle of Grain

Receiving Terminal

Balfour Kilpatrick

Chevron Texaco SOWIP

Chevron Texaco / KYE

Nexen Petroleum UK Buzzard

CB&I John Brown / Bi-Fab /
Heerema / Dragados / El WHS

Shell Bacton Gas Terminal

Amec / Watson Norie

Conoco Philips Britannia

Satellites - Bi-Fab / Heerema /
Isleburn Mackay & Macleod / El WHS

Exxon Neftegaz Sakhalin I

Bluewater Energy / Amec / Consafe /
McNulty Offshore

MSV Regalia

Prosaf

Gasmar Quintero Terminal

CB&I

Petrochemical

Sadara Chemical Complex

Dow Chemical / Fluor

Total Port Arthur Deep

Conversion Project

Total / Fluor

BP Kinneil Expansion

BP / Amec / BBESL

Victrex Phase I

BBESL

Victrex Phase 2

BBESL

Victrex Phase 3

Boulting

Lotte LC I Wilton

SPIE WHS

Vivergo Fuels Hull

SSE Contracting

GrowHow UK

SSE

Esso Fawley Refinery

Esso / SEC

Murco Milford Haven Refinery

Murco / SEC

Chevron Pembroke Refinery

Foster Wheeler / Amec / SEC

Petroplus Coryton Refinery

Foster Wheeler / Boultings

Sabir UK Wilton Refinery

Amec

BP Wytch Farm Oil Field

SEC

Victrex SU3000 Project

Watson Norie

Esso Birmingham Fuels Terminal

SEC

Ineos Grangemouth Refinery

Boultings

Sakhalin Energy Sakhalin II LNG

Fluor

Stanlow Oil Terminal

ESL fuels / West Supply



Power / Renewable Energy

Northern Ireland Electricity Substation Upgrades –
Northern Ireland Electricity

Gwyn-ty-Mor Wind Farm
Harland & Wolff

Lakeside Energy from Waste
Lakeside EfW / Kab Takuma / Jacobs / Lawton

Riverside (Belvedere) EfW
VVB Engineering

SITA Tees Valley EfW
Hitachi Zosen Inova / Jones Eng

Bedford Energy Centre
BBESL

NG 33KM Tunnel
Costain / VVB Engineering

Sizewell Nuclear Power Station
BBESL

Hinkley Point B Power Station
SSE Contracting / BBESL

Hinkley Point C Power Station
BBESL

Sellafield Nuclear Power Station
BBESL

EDF Energy West Burton CCGT
EDF Energy/Amec/SPIE Matthew Hall

EDF Energy Grain CCGT
EDF Energy / Alstom / SPIE WHS

Centrica Langage CCGT
Centrica / Alstom / BBESL

RWE nPower Staythorpe CCGT
RWE nPower / Alstom / SPIE WHS

RWE nPower Pembroke CCGT
RWE nPower / Alstom / Dornan Eng

SSE Greater Gabbard Offshore Wind Farm - Siemens / Fluor

Scottish Power Whitelee Wind Farm - Scottish Power / BBESL

Air Product Tees Valley Energy from Waste - Foster Wheeler/BBESL

Drax Power Station Project Phoenix
Shepherd Engineering Services

Hunterston A Power Station
BBESL

Eggborough Power Station
EMI

Ferrybridge 'C' Power Station
Keadby Generation

Scottish Power Shoreham Power Station - Scottish Power

EDF Energy Torness Power Station - BBESL

EDF Energy Cottam Power Station - Fabricom

RWE nPower Staythorpe Power Station - Balfour Kilpatrick

Alstom Langage Power Station
EI WHS / Balfour Kilpatrick / Hall & Kay

British Energy Hunterston B Power Station - Balfour Kilpatrick

Scottish and Southern Energy Ferrybridge Power Station
Keadby Generation

Scottish and Southern Energy Fiddlers Ferry Power Station
SEC

British Energy Heysham Power Station - Balfour Kilpatrick

Conoco Philips Immingham CHP
Foster Wheeler / Balfour Kilpatrick

PGT Pulrose Power Station IOM
NEL / SEC / Easthope & Cubbins

British Energy Eggborough Power Station
FLS Miljo / Balfour Kilpatrick

Spalding Energy Company Spalding Power Station
Bechtel / Amec / GE Electric

Scottish Power Green Knowse Wind Farm - Balfour Kilpatrick

EDF West Burton Power Station
FLS Miljo / BWE / Lawton Electrical

British Energy Hartlepool Power Station
British Energy Operations

ESB Coolkeeragh CCGT Power Station
Balfour Kilpatrick / PPL

EDF Energy Cottam Power Station - Balfour Kilpatrick

Aghada Generating Station
ESB / Alstom Power

Mining

Hope Downs
Rio Tinto / Downer

Western Turner
Rio Tinto / Monadelphous

Wicet (Wiggins Island Coal Export Terminal) - Monadelphous

Boulby Underground Mine
Cleveland Potash

Building Services

Ulster Hospital Cancer Care Centre - Dowds Group

Enniskillen Hospital
Dowds Group

NHS Addenbrookes Hospital, Cambridge - Dowds Group

The Shard London
Mace / IPS / CHS / Greyflex / CSTS

Leadenhall London (Cheese grater)
Laing O'Rourke / Crown House

Sydney Russell School
Laing O'Rourke / Crown House

Langdon School
Laing O'Rourke / Crown House

NHS Pembury Hospital
Laing O'Rourke / Crown House

DP World London Gateway
Laing O'Rourke / BBESL

HPH Felixstowe Docks
Costain / SPIE WHS

Cancer Research UK Francis Crick Institute (UKCRMI)
Crown House Technologies

Thames Water Beckton Sewage Treatment Works - Crown House

NHS Southmead Hospital
Crown House Technologies

Sea Container House
BBESL

Project Grande One Hyde Park
Laing O'Rourke / Crown House / Horsted Services

Aviva / Exemplar Fitzroy Place
Dornan Engineering

Waldorf Hotel
HS Environment

45 Park Lane Hotel
Mitie Engineering

Radisson Hotel
NG Bailey

TfL Cannon Place
Laing O'Rourke / Crown House

Vesta Blade IOW Facility
MJN Colston

RAF Brize Norton
SSE Contracting

Westminster Courts
Crown House Technologies

London Stock Exchange
Skanska

HMP Featherstone
BBESL

Great Northern Hotel
Dornan Engineering

Brunel Academy
Crown House Technologies

BSkyB Asset Maintenance
BSkyB / Norland

JP Morgan
KMK

Oxford Brooks University
Crown House Technologies

Savoy Hotel London
SPIE Matthew Hall

Premier Inn Gatwick PTI
NG Bailey

Truman Brewery Data Centre
Palfreyman Power

Hayes Data Centre
SPIE Matthew Hall

Gyron Hemel Data Centre
Keysource

HP Data Centre
Boon Building Services

HSBC WGC Data Centre
HSBC/Laing O'Rourke/Crown House

Project DART
Laing O'Rourke / Crown House

Savvis Data Centre
NG Bailey

Equinix LD5
Laing O'Rourke / Crown House

NGD Cardiff Data Centre
SPIE Matthew Hall

Cap Gemini Data Centre
SPIE Matthew Hall

Rolls Royce Bertley Facility
BBESL

NHS QE Hospital Gateshead
BBESL

Project Fresco
Boulting

Air Products Air Separation Unit
Hertel

ASO Whitehaven
Shepherd Engineering Services

NHS Whitehaven Hospital
Crown House Technologies

NHS Darlington Hospital
Crown House Technologies

NHS Fife Hospital
BBESL



NHS Forth Valley Acute Hospital
Crown House Technologies

NHS James Cook Hospital
Shepherd Engineering Services

Diageo Falkirk
SPIE WHS

Brighton Stadium
NG Bailey

Westfield Shopping Centre
STS

The Mall Group Luton Mall
Briggs & Forrester

Wolves University
BBESL

NHS St James Hospital
Crown House Technologies

West Ferry Printers HQ Luton
ETDE

West Thames College
SPIE Matthew Hall

NHS Walsall Hospital
MW Crippwell

Toltec Data Centre
SPIE Matthew Hall

MRC Cambridge LMB
Integrated Electrical

Valero Pembroke Refinery Fire
Station – EMC Services

NHS Royal Marsden Hospital
BBESL

NHS Llandough Hospital
SPIE Matthew Hall

Thames Water Mogden StW
Lightning Electrical

MOD RAF Lakenheath
BBESL

Northern NSC Antrim Hospital
Exornia

Esso Seisdon Pumping Station
SEC

Scottish Water Katrine Water
Project - Balfour Kilpatrick

National Grid Liverpool Gas
Mains Renewal - Amec

BAA Heathrow Terminal 1
SPIE Matthew Hall / Target / Inviron

BAA South Terminal Gatwick
Crown House Technologies

BAA Stansted Airport Expansion
CHS Group

Network Rail / LUL Cannon
Street Station - Crown House

Arora International Hotel
Heathrow - Crown House

NHS Kent & Canterbury
Hospital - Crown House

NHS Birmingham New
Hospital - NHS / Haden Young

NHS University College London
Hospital - Hayden Young / Amec

NHS Derby City Hospital
MW Crippwell

NHS William Harvey Hospital
Crown House Technologies

BAA Heathrow Terminal 5
BAA / AMEC / Crown House / Laing
O'Rourke / Modular Wiring / Honeywell
/ Balfour Kilpatrick / Sepam / Target

Hampshire CC Marchwood
Incinerator - Lawton Electrical

Northumbrian Water Denton
Water Treatment - EI WHS

Thales UK Sapphire Project
Crown House / ADI

Home Office Brook House
Detention Centre
SPIE Matthew Hall

HM Prison Service HMP
Belmarsh - SPIE Matthew Hall

Scottish Prison Service HMP
Addiewell - SPIE Matthew Hall

Highways Agency Dartford
Tunnel M25 - Amec

Highways Agency M25
Holmesdale Tunnel - NLE Electrical

Diamond Light Source
Diamond Synchrotron
DLS / Balfour Kilpatrick

East Grinstead Data Centre
Crown House

Aughinish Alumina
Sepam

BNP Paribas
Whiterock Engineering

Vue Cinema White City
Dicks Electrical

NHS St Thomas' Hospital
AT Group

Bank of America London
SPIE Matthew Hall

Transportation

TfL Farringdon Station Upgrade
Crown House Technologies

TfL London Bridge Station
NG Bailey

TfL Tottenham Court Road
Station Upgrade - NG Bailey

TfL Bond Street Crossrail Station
Upgrade - Laing O'Rourke / Costain
/ Crown House / VVB Engineering

LUL Brixton Station Upgrade
VVB Engineering

HAL Heathrow T2A
HETCO / Crown House / Honeywell /
NG Bailey / Prater / Target / Tyco /
KMK / Tri Management

HAL Heathrow T2B
Balfour Beatty Construction /
Honeywell / Target / Prima Doors

HAL Heathrow T3IB
Ferrovia / Vanderlande / JCK / SPIE
Matthew Hall

HAL Heathrow T2AA
Balfour Beatty Construction

HAL Heathrow T2 MSCP
HETCO / Laing O'Rourke / Crown
House Technologies / Parter

ADC / HAS Belfast Airport
ATG Airports

HAL Glasgow Airport
Laing O'Rourke

LLO/ AGI Luton Airport
ATG Airports

Highways Agency New Tyne
Tunnel - SPIE WHS

MAG Manchester Airport
ATG Group

GAL Gatwick North Terminal
Morgan Sindall / Briggs & Forrester

GAL Gatwick ITTS
SPIE Matthew Hall

LUL Brixton Station
VVB Engineering

TfL Blackfriars Station Upgrade
Balfour Beatty Civil Engineering

Highways Agency Bell Common
Tunnel - Costain / VVB Eng

GAL Gatwick Pier 2
SPIE Matthew Hall

GAL Gatwick Pier 5
Carillion / Shepherd Engineering

Highways Agency Blackwall
Tunnel - Costain / VVB Engineering

Highways Agency Hindhead
Tunnel - Mott MacDonald / BBESL

Highways Agency Hatfield Tunnel
BBESL

Crossrail Canary Wharf Crossrail
Station - Briggs & Forrester / Logic
Electrical / WT Parker

Ship Building

EnQuest Producer
OGN / SPIE WHS

Swift 141
Imtech Marine / Logistic International
/ McKay / Abu Dhabi MAR

Bluewater Aoka Mizu FPSO
Benwin / Sembawang

Petrobras Cidade FPSO
Keppel / Benwin

Malta Shipyards Fairmount Fjord
Imtech Marine

Ministry of Defence ALSL Bay
Class Ships - BAE Systems /
Swan Hunters / Imtech Marine

Ministry of Defence
Astute Class Submarines
BAE Systems

Flintstone Rock Dumping Vessel
DEME / Imtech Marine / Benwin

Pharmaceutical

GlaxoSmithKline Ware
Tri Management

GlaxoSmithKline Worthing
GSK

GlaxoSmithKline IMI Power
Plant - Foster Wheeler / SEC

GlaxoSmithKline Montrose
Watson Norie

Pfizer Biotech Facility Sweden
Dornan Engineering

Ipsen Biopharm
DPS / Cross Services

Novartis Building 120
Amec

Novartis Building 150
Jacobs / Watson Norie

Merck Sharp & Dohme
Expansion - SEC

Takeda Bulk API Plant Dublin
SEC

Chiron Vaccines Site 4
Development - CEL / SEC



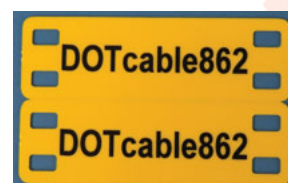
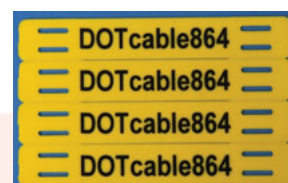
DOTcard System



DOTcable862, DOTcable864 & DOTcable458 Cable Markers



Probably the most efficient system for producing high numbers of high quality cable markers on the market today is the DOTcard System. Printing up to 4,800 cable markers per hour the DOTcard System works with the same thermal printer and DOTlabel Software as the DOTcard2130 core identification system. The DOTlabel Software enables you to import information direct from Word and Excel, saving enormous amounts of labour time and money in reduced production times.



The DOTcard System has numerous features and benefits such as:

- Thermal printer producing up to 4,800 cable markers per hour
- Easy to use DOTlabel Software, which can import information direct from Word and Excel
- Simple to install cable markers using cable ties
- Clear, easy to read text or numbers
- Nine standard colours (yellow, white, red, blue, green, orange, grey, black & purple) available ex-stock
- One thermal printing system & software prints all sizes of cable markers & valve tags
- In-house pre-printing service available on request

DOTvalve3 Valve Tags

The DOTvalve3 Valve Tags are ideal where quick and cost efficient tagging is required. They are printed via the same DOTcard System thermal transfer printer, which can produce up to 1,800 tags per hour, and are available in the nine standard colours detailed below. As they are manufactured from the same specially formulated Nylon / ABS compound as our range of DOTcard System Cable Markers, our DOTvalve3 Valve Tags are also covered by the same Test Data detailed below.



Test Data

The following Test Accreditations have been attained from an independent UKAS certified Test House for all of our Cable Markers and Valve Tags manufactured from our specially formulated Nylon / ABS compound:

ISO 4892-2: 1994	Weathering test equivalent to 5 years exposure in a Northern European climate
ISO 188: 1998	Long term high temperature +85°C
ISO 188: 1998	Short term high temperature +180°C
MIL-STD-810F: Method 502.4	Long term low temperature -40°C
MIL-STD-202G: Method 106G	Long term humidity (4 weeks)
ASTM B117: 1987	Salt fog resistance (4 weeks)
MIL-M-81531	Print adherence rub test
SAE AS81531: Section 4.6.2: 1998	Print adherence rub test
Chemical resistance	Samples immersed in 7 specified fluids for 30 minutes at 23°C followed by 10 rub cycles

Technical Data

Material	Specially formulated Nylon / ABS compound
Marking	Thermal Transfer via DOTcard System printer – see Page 10
Standard Colours	Yellow, White, Red, Blue, Green, Orange, Grey, Black and Purple (other colours can be made to order - M.O.Q. will apply)

Part No.	Description	Dimensions	Packaging
DOTcable862	Cable Markers	86mm x 27mm	200 Cable Markers per box
DOTcable864	Cable Markers	86mm x 13.5mm	400 Cable Markers per box
DOTcable458	Cable Markers	45mm x 10.75mm	800 Cable Markers per box
DOTvalve3	Valve Tags	28.5mm x 54mm	300 Valve Tags per box
DOTcard86	Plain Cards	86mm x 54mm	500 Plain Cards per pack

The DOTcable862, DOTcable864, DOTcable458, DOTvalve3 and DOTcard86 are all ex-stock in all standard colours and available for immediate despatch.

DOTcard86 Cards

The DOTcard86 is a plain 86mm x 54mm card, which are also printed via the DOTcard System thermal transfer printer and are available in almost any colour. Please contact us if you require further information.





DOTcard2130 Core Idents

Product Overview

The DOTcard2130 two-part sleeve and core ident system is probably the most popular way of identifying instrumentation wiring across the world today.

The system is made up of a transparent sleeve, the DOTsleeve, which has one recess for the wire / cable and one recess for the DOTcard2130 core ident. No more having to disconnect, reconnect and retest the circuit to change a heatshrink label or other type of marker, simply slide the old label out of the DOTsleeve then slide the new label in.

The DOTcard System can print up to 7,200 of the DOTcard2130 core idents per hour and uses the same thermal transfer DOTcard System Printer and DOTlabel Software as which prints the full range of DOT cable markers. The software enables you to import information direct from Word and Excel, saving enormous amounts of labour time and money in reduced production times.

The DOTcard2130 core identification system has numerous features and benefits such as:

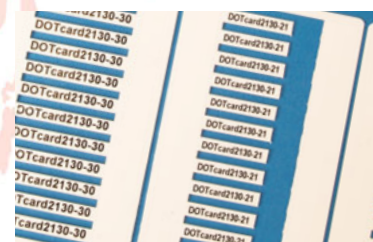
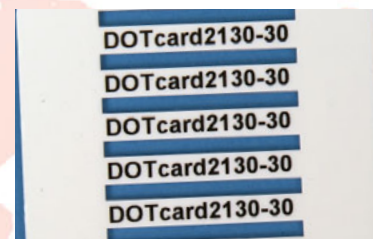
- Thermal printer producing up to 7,200 core idents per hour
- Easy to use DOTlabel Software, which can import information direct from Word & Excel
- Easy to install 'slide in and break off' DOTcard2130 and DOTsleeve system
- Clear, easy to read text or numbers, even on small cores
- No heat gun required
- Label can be changed even after termination

The DOTcard2130 core idents are ex-stock and available for immediate despatch.

Technical Data

Card size: 86mm x 54mm
Material: HIPS
Marking: Thermal Transfer
Colour: White
(other colours can be made to order - M.O.Q. will apply)

Part No.	Description	Dimensions	Packaging
DOTcard2130	Core Idents	21mm or 30mm x 4mm	1200 Core Idents per box



DOTsleeve21 or DOTsleeve30 Transparent Sleeves

Product Overview

The transparent DOTsleeve has two recesses, one for the wire / cable and one for the label. The DOTcard2130 core identification system has two distinct advantages over other systems available on the market today. The first being that should the core ident require changing after the wire has been connected, simply slide the old label out before sliding the new one in. There's no need to disconnect, reconnect and retest the circuit.

The second advantage is that should the information to be printed onto the DOTcard2130 core idents not be available at the time the Engineers are ready to connect the wires and test the circuit, the Engineers can simply slide the DOTsleeves into place, connect the wires and test the circuit and the printed core ident can be slid into the DOTsleeve as and when the information becomes available. This cannot be done if a heatshrink labelling system is being used.

Both the DOTsleeve21 and the DOTsleeve30 are available in a range of core diameters (see table below) and are manufactured from a flexible PVC for ease of installation. All sizes of the DOTsleeves are ex-stock and available for immediate despatch.

Part No.	Description	Size Range	Packaging
DOTsleeve21/1	21mm transparent sleeves	Ø 1.7 - 2.8mm (0.5 - 0.75mm ²)	1,000 sleeves per bag
DOTsleeve21/2	21mm transparent sleeves	Ø 2.5 - 5.0mm (0.75, 1.0, 1.5, 2.5 & 4.0mm ²)	1,000 sleeves per bag
DOTsleeve21/3	21mm transparent sleeves	Ø 4.0 - 10.0mm (2.5 - 16mm ²)	1,000 sleeves per bag
DOTsleeve21/4	21mm transparent sleeves	Ø 8.0 - 16mm (16 - 70mm ²)	1,000 sleeves per bag
DOTsleeve30/1	30mm transparent sleeves	Ø 1.7 - 2.8mm (0.5 - 0.75mm ²)	1,000 sleeves per bag
DOTsleeve30/2	30mm transparent sleeves	Ø 2.5 - 5.0mm (0.75, 1.0, 1.5, 2.5 & 4.0mm ²)	1,000 sleeves per bag
DOTsleeve30/3	30mm transparent sleeves	Ø 4.0 - 10.0mm (2.5 - 16mm ²)	1,000 sleeves per bag
DOTsleeve30/4	30mm transparent sleeves	Ø 8.0 - 16mm (16 - 70mm ²)	1,000 sleeves per bag





DOTcard System Printer (Smart)

The specially modified DOTcard System Smart Printer is one the most user friendly and reliable thermal transfer card printers and can print the whole range of DOTgroup Cable Markers, Core Idents, Valve Tags and plain cards making the production of labels quick and easy.



With a compact and optimised design the specially modified DOTcard System Smart Printer boasts features to include a real-time status two line LCD display and both the input and output hoppers being conveniently located on the front. The combined ribbon and cleaning roller cartridge makes changing the ribbon both quick and easy, coupled with an enhanced printing speed of 720 monochrome cards per hour.

Key features & specifications include:

- Print speed: 720 monochrome cards per hour
- Card capacity: input 80 / output 30
- 1-year return to base printhead warranty
- Printer size: H: 190mm x W: 166mm x D: 360mm
- Weight: 4.5kg / Resolution - 300dpi / Interface - USB
- Agency listing MIC, CE, UL & FCC approved

Part No.	Description	Quantity
DOTcard-SBR	1,200 image Black Ribbon & Cleaning Roller Kit	No MOQ
DOTcard-SWR	1,200 image White Ribbon & Cleaning Roller Kit	No MOQ
DOTcard-SLCC	Printer Head Long Cleaning Card	No MOQ

DOTcard System Printer (Zebra)

The specially modified DOTcard System Zebra Printer is one the most user friendly and reliable thermal transfer card printers and can print the whole range of DOTgroup Cable Markers, Core Idents, Valve Tags and plain cards making the production of labels quick and easy.



With class leading performance the specially modified DOTcard System Zebra Printer boasts features to include a belt driven angled card feeder designed to ensure reliable card feeding and a single line LCD screen to report printer status. The 'gimble' mounted printhead gives excellent print quality and the automatic ribbon synchronisation makes changing the ribbon easy.

Key features & specifications include:

- Print speed: over 600 cards per hour
- Card capacity: input 100 / output 100
- 1-year return to base printhead warranty
- Printer size: H: 256mm x W: 462mm x D: 239mm
- Weight: 7kg / Resolution - 300dpi / Interface - USB
- Safety regulations CE, FCC, UL, CUL & CCC approved

Part No.	Description	Quantity
DOTcard-ZBR	1,000 image Black Monochrome Ribbon	No MOQ
DOTcard-ZWR	1,000 image White Monochrome Ribbon	No MOQ
DOTcard-ZCR	Adhesive Cleaning Rollers	Pack of 5
DOTcard-ZLCC	Printer Head Long Cleaning Card	No MOQ
DOTcard-ZSCC	Printer Head Short Cleaning Card	No MOQ

DOTcard System Printer & Laptop Package

The DOTcard System can be supplied as a Printer and Laptop package. The Laptop comes pre-loaded with the printer drivers and DOTlabel Software ready to 'Plug and Go'. Please contact us for further information and a Quotation.



DOT-FCM Flexible Cable Marker / DOTshrink System



DOT-FCM – Flexible Cable Markers

An alternative to the DOTcard System is the easy to print and LUL approved DOT-FCM Flexible Cable Markers, which are made from a high quality LSOH (Low Smoke Zero Halogen), UV Stable and Fire Retardant material.

The DOT-FCM Flexible Cable Markers are manufactured by DOTgroup International in a continuous format and are printed via the DOT-FCM / DOTshrink System Printer. The continuous format of these cable markers compliment our range of DOTshrink Heatshrink Tubing and allows users to produce over 3,550 per hour of high quality cable markers quickly and efficiently. The centred gap ensures the labels are positioned and printed correctly every time, while the perforations between each label keep them together until they are torn apart and installed, minimising lost labels.

The DOT-FCM Flexible Cable Markers are manufactured in two widths (13mm and 27mm), two lengths (76mm and 102mm) and are available in both yellow and white as standard. All combinations of widths and lengths are available ex-stock, ready for immediate despatch. Non-standard colours can be made to order, a MOQ will apply, please contact us for further information.

The DOT-FCM / Shrink System Printer is a reliable, easy to use thermal transfer printer, which offers users high speed, high performance printing at a low cost. It provides accurate printing of all sizes of our DOT-FCM Flexible Cable Markers, DOTshrink Heatshrink Tubing and DOTwrap4x2 wraparound self-adhesive labels with the minimum of operator training. This system also works with the same DOTlabel Software as the DOTcard System, which allows users to import information direct from Word and Excel, saving enormous amounts of labour time and money in reduced production times.



The DOT-FCM Flexible Cable Marker features and benefits:

- Print over 3,550 cable markers per hour (using 75mm/s standard print speed)
- Two label widths (13mm & 27mm) and lengths (76mm & 102mm) available ex-stock
- Two standard colours yellow and white available ex-stock
- DOT-FCM black ribbon provides superior resistance to scratching and solvents
- Cable markers produced with easy to tear perforation
- Quick and easy to install cable markers using cable ties
- Centralised gap in cable markers and gap sensor in printer mean no lining up required, minimising label wastage
- Cable markers attached in continuous format – no more losing loose labels
- DOT-FCM Flexible Cable Markers bend to shape of round cables
- Spool quantities of either 245 or 325 (approx) – less frequent changing required
- Solid thermal transfer printer made for industrial environments
- Pre-formatted DOT-FCM templates in user friendly DOTlabel Software, which can import information direct from Word and Excel
- DOT-FCM / Shrink System prints all sizes of DOT-FCM Flexible Cable Markers, all sizes of DOTshrink Heatshrink Tubing and DOTwrap4x2 wraparound self-adhesive labels
- Pre-print service available on request

Technical Data

Material

LSOH (Low Smoke Zero Halogen), UV Stable & Fire Retardant

LUL Approved

LUL (London Underground Ltd) Registration No: 993

Marking

Thermal Transfer via DOT-FCM / Shrink System Printer – see Page 15

Standard Colours

Yellow and White

Non-Standard Colours

Non Standard Colours can be made to order - MOQ will apply

Part No.	Description	Dimensions	Spool Quantities	MOQ
DOT-FCM1376	Cable Markers	13mm x 76mm	325 Cable Markers per spool (approx)	1 spool
DOT-FCM13102	Cable Markers	13mm x 102mm	245 Cable Markers per spool (approx)	1 spool
DOT-FCM2776	Cable Markers	27mm x 76mm	325 Cable Markers per spool (approx)	1 spool
DOT-FCM27102	Cable Markers	27mm x 102mm	245 Cable Markers per spool (approx)	1 spool



DOTshrink Heatshrink Tubing

The DOTshrink range of Heatshrink Tubing offer clients a convenient and cost-effective way of identifying cores and cables permanently, even in tough industrial environments.

Manufactured from flame retarded military grade Polyolefin, DOTshrink Heatshrink Tubing meets the requirements of a wide range of industrial and high technical standards and are also very versatile through excellent balance of chemical, electrical and mechanical properties.

The operating temperature range of DOTshrink Heatshrink Tubing is -55°C to $+135^{\circ}\text{C}$, they are unaffected by water and offer excellent resistance to commonly encountered industrial chemicals.

DOTshrink Heatshrink Tubing is supplied on continuous spools of up to 30 metres and printed via our DOT-FCM / DOTshrink System thermal transfer printer. The pre-formatted, user-friendly DOTlabel Software allows information to be imported direct from Word and Excel, as well as having an automatic sequencing feature.

The advantage of producing DOTshrink Heatshrink Tubing on a continuous spool is twofold. Firstly, it allows clients to change the length of each individual marker sleeve without changing the spool each time by simply selecting another template in DOTlabel Software, and more importantly, it's more cost effective.

Temperature range: -55°C to $+135^{\circ}\text{C}$
(225°C for shorter periods)

Optimum shrink temperature: 115°C

Self extinguishing (except transparent)

Excellent colour fastness

Available in 11 colours (white as standard)



Table of Standard Sizes and Packaging

Part No:	Inside Diameter (mm)		Wall Thickness (mm)	Spool Size (metres)
	Expanded	Recovered	Recovered (nom)	
DOTshrink2.4	2.4	1.2	0.51 +/-0.07	30m
DOTshrink3.2	3.2	1.6	0.51 +/-0.07	30m
DOTshrink4.8	4.8	1.6	0.51 +/-0.07	30m
DOTshrink6.4	6.4	3.2	0.64 +/-0.07	30m
DOTshrink9.5	9.5	4.8	0.64 +/-0.07	30m
DOTshrink12.7	12.7	6.4	0.64 +/-0.07	30m
DOTshrink19.1	19.1	9.5	0.76 +/-0.07	30m
DOTshrink25.4	25.4	12.7	0.89 +/-0.07	20m

Approvals & Standards	Property	Value
BS3G198 Type 11A & 11B Def. Stan. 59-97/3 Type 1a & 2b SAE-AMS-DTL-23053/5 (MIL-I-23053/5) UL224 VW-I Flammability	Temperature Range Temp. max short period Colour Fastness Flammability Tensile Strength Elongation at Break Chemical Resistance Resistance to Mould Growth Proof Voltage Max Longitudinal Change	-55°C to $+135^{\circ}\text{C}$ 225°C Standard 6 minimum Self extinguishing 10.0 MPa minimum 250% minimum G198 / D.S. 59-97, Good BS2011 pt. 2.1J 14kV per 1mm wall thickness +0%, -5%

Coloured and Adhesive Lined Heatshrink Tubing

DOTgroup International can also supply a range of coloured B I I Heatshrink Tubing and Adhesive Lined B I I Tubing, which can be supplied on spools or cut to length. The standard colours available are black, red, yellow, green, blue and white and are available in sizes from 1.2mm to 101.6mm. Please contact us if you require more information or a quotation.





DOTwrap4x2 Wraparound Self-Adhesive Labels

The features and benefits of our DOTwrap4x2 self-adhesive wraparound labels are as follows:

- Ideal for identifying cables already connected
- Quick and easy to install
- Print area protected by long transparent tail
- Large 49mm x 26mm print area - ideal for large text or multiple lines of text
- High strength adhesive for long term identification
- Labels supplied on continuous rolls – no more wasted labels
- Any size or colour can be made to order (MOQ will apply)
- Labels can be manufactured with company logo's (MOQ will apply)
- Printed via same DOT-FCM / Shrink System Printer which prints both the full range of DOT-FCM Flexible Cable Markers as well as all sizes of DOTshrink Heatshrink Tubing
- Printed via DOTlabel Software which has DOTwrap4x2 templates pre-installed
- Print over 2,600 DOTwrap4x2 self-adhesive wraparound labels per hour



Part No.	Label Size	Printable Area	Quantity
DOTwrap4x2	98mm x 49mm	49mm x 26mm	1,000 labels per roll

DOTwrap4x2 Pre-Printed Wraparound Labelling Service

Our DOTwrap4x2 self-adhesive wraparound labels can be supplied and delivered direct to site pre-printed. Simply send the information to be printed electronically (Word or Excel) to our in-house production facility and dependant on quantity required, delivery should take place within 24 - 48 hours. Information can be typed and printed from drawings by arrangement.

Part No.	Label Size	Printable Area	Pre-Printed MOQ
DOTwrap4x2	98mm x 49mm	49mm x 26mm	No MOQ





DOT-FCM / DOTshrink System Printer

The DOT-FCM / DOTshrink System Printer is a reliable, easy to use thermal transfer printer, which offers users high speed, high performance printing at a low cost. It provides accurate printing of our DOT-FCM range of Flexible Cable Markers, DOTshrink Heatshrink Tubing and DOTwrap4x2 wraparound self-adhesive labels whenever it is required with the minimum of operator training and maintenance. Please contact us for full technical specifications.



Key features & specifications include:

- Print speeds of up to 125mm per second
- Prints DOT-FCM Flexible Cable Markers, DOTshrink Heatshrink Tubing & DOTwrap4x2 wraparound self-adhesive labels
- Adjustable label guides which keep all widths of continuous media centrally aligned (4-105mm)
- Large, easy to use navigation pad and LCD screen to front of printer
- Solid dye-cast aluminium chassis with easy folding cover
- All popular font types, character sets, graphics and linear barcodes supported
- Power – 100-240 V ~ 50/60 Hz, PFC. Consumption 300W max.
- Serial RS232 C and high-speed USB ports fitted as standard
- Print – Thermal Transfer
- Printer size - H: 274mm x W: 242mm x D: 446mm
- Printer weight - 9 kg
- Resolution - 300 dpi
- Approvals - CE, FCC Class A, CB, CCC and UL

Part No.	Description	Quantity
DOT-FCM-BR	300m x 40mm Black Ribbon	No MOQ
DOT-FCM-DR	Printer Drive Roller	No MOQ

DOT-FCM / DOTshrink System Perforator / Cutter



The DOT-FCM / DOTshrink System Perforator / Cutter is specially designed for perforating or cutting the range of DOTshrink Heatshrink Tubing. Cutter options include a choice of cut after each label, cut after a specific quantity of labels or cut at the end of a print job (batch cut) and the cutters have a durability of more than 500,000 cuts depending on the thickness of material.

Quick and easy to install – simply unscrew front panel using the on-board tool, plug lead into peripheral connection, tighten screw to secure then you're ready to go. Full details available on request.

Key features & specifications include:

- Excellent blade durability
- Performs circular cut
- Low maintenance
- Self-sharpening blades
- Optional cutter tray available
- Removable blades

DOT-FCM / DOTshrink System Ribbon

The DOT-FCM / DOTshrink black thermal transfer ribbon prints the whole range of DOT-FCM Flexible Cable Markers and DOTshrink Heatshrink Tubing. It offers superior resistance to solvents and abrasion and exceeds the levels of print permanence required in industrial environments around the world today.



Key features & specifications include:

- Superior scratch resistance
- Superior resistance to solvents
- High resolution printing
- Storage Conditions: 5°C to 35°C (41°F to 95°F)
- Industry Standards: SAE-AS81531 & MIL-STD-202F Method 215J
- Humidity: 10% to 85% relative humidity

DOT-FCM / DOTshrink System Printer & Laptop Package

The DOT-FCM / DOTshrink System can be supplied as a Printer and Laptop package. The Laptop comes pre-loaded with the printer drivers and DOTlabel Software ready to 'Plug and Go'. Please contact us for further information and a Quotation.



DOT-PHP Portable Heatshrink Printer

The DOT-PHP Portable Heatshrink Printer is a rugged, easy to use portable printer for the production of 'on-site – on demand' heatshrink tubing labels.

Supplied ready to use, the DOT-PHP Portable Heatshrink Printer kit includes a carrying case, AC adapter, power cord, serial cable, external battery charger, 6 x NiCad batteries and user manual. Simply insert the self-contained DOT-PHC Portable Heatshrink Cartridge into the DOT-PHP and start printing.



Key features & specifications include:

- Thermal transfer printing technology
- 300 DPI (12 dots per mm) resolution
- 2 line - 16 characters per line LCD
- Prints 6 - 72 point in one point increments
- Up to 6 lines of text
- Downloadable, scalable fonts
- User memory to store label formats etc
- Flash upgradeable firmware
- Real time clock with time and date stamping facility
- Multi language prompts
- Alpha / numeric sequencing
- Repeat function up to 999 copies
- Built in cutter
- 10 resident barcode symbologies including Code 39, 128, UPC & EAN
- Feed control to eliminate supply wastage
- Print styles include bold, italic, mirror, frame and underline
- Rotate feature for landscape or portrait mode
- Vertical and horizontal printing
- Audible key clicks
- RJ45 serial connection (cable supplied) for connecting to your PC
- Printer drivers and Kroy Label Design Software (KLDS)
- Internal battery charger (to charge batteries in-situ the AC Adapter must be used)

Dimensions:

280mm (L) x 153mm (D) x 102mm (W)

Electrical Specification:

- AC adapter input 100-250v AC, 50/60Hz 43w
- AC adapter output: 12DVC, UL, C-UL, CE
- Batteries: C-size rechargeable NiCad 2.2A/Hour
- Meets VDE-B & FCC Part 15 Class B RFI Limits

Serial Port:

RS232 9600-115200 baud

DOT-PHC Portable Heatshrink Cartridge



The DOT-PHC Portable Heatshrink Cartridge is a fully self-contained cartridge for use with the DOT-PHP Portable Heatshrink Printer.

Containing 2.8m of very flexible, high temperature rated, highly flame retardant Polyolefin white heat shrinkable tubing and the ribbon, simply insert the DOT-PHC into the DOT-PHP and start printing.

Technical Data:

Property	Value
Temperature Range	-55°C to +135°C
Heat Shock	SAE-AMS-DTL-23053 (250°C x 24h)
Colour Stability	SFP-Std. (158°C x 4h)
Flammability	UL 224, VW-1 self-extinguishing
Tensile Strength	ASTM D 638 14MPa
Elongation at Break	ASTM D 638 410%
Fluid Resistance	SAE-AMS-DTL-23053 7.25 – 14MPa (immersion 23°C x 24h)
Dielectric Strength	ASTM D 876 37KV/mm
Longitudinal Change	SFP-Std. -10%, +/-3%
Approvals & Standards	UL 224 / CSA C 22.2 No. 198.1: 125°C, 600V, VW-1

Part Number	Description	Inside Diameter (mm)		Spool Size (metres)
		Expanded	Recovered	
DOT-PHCW3.2	White Heatshrink Tubing	3.2	1.6	2.8m
DOT-PHCW4.8	White Heatshrink Tubing	4.8	2.4	2.8m
DOT-PHCW6.4	White Heatshrink Tubing	6.4	3.2	2.8m
DOT-PHCW9.5	White Heatshrink Tubing	9.5	4.8	2.8m



DOT-LEM35 Laser Engraving System



DOT-LEM35 Laser Engraving Machine

With the DOT-LEM35 Laser Engraving Machine, engraving, cutting and marking has evolved from a difficult process to an easy task. Just Plug and Go!

Easy to Operate

Whether you want to engrave, cut or mark, the DOT-LEM35 is easy to use, precise, fast and reliable and is ideal for an expert engraver or a first time user.

Easy to Install

The DOT-LEM35 comes supplied as a complete, ready to use package. You simply unpack it, follow the installation instructions and start engraving.



Easy to Use

The DOT-LEM35 is supplied with a laptop pre-loaded with the printer driver and both DOTlabel Software and the Graphic Engraving Software. The pre-formatted templates of DOTlabel Software and the user-friendly functions of the Graphic Engraving Software make the production of signs and labels both simple and fast.

Easy to Maintain

The DOT-LEM35 was designed with ease of maintenance in mind and the optics and worktable can be removed for cleaning and reinstalled quickly and easily.

Standard Features

Warranty - The DOT-LEM35 is supplied with an 18 month manufacturer's warranty as standard.

Auto Focus - Working in conjunction with the focusing lens, this "auto focus" function automatically positions the engraving table to the proper standoff position.

Red Laser Pointer - The actual lasing beam is invisible, so the DOT-LEM35 comes equipped with a visible "red dot" pointer for quick and easy positional alignment.

LCD Control Panel - Easy to understand instructions and ergonomically designed LCD Control Panel enhances efficiencies and productivity.



Optional Accessories

- Integrated and various independent exhaust systems
- Alternate lenses (1.5, 2.5, 3.5, 4" focal length)
- Honeycomb cutting table
- Floating pin table h=30mm (1.18")
- Integrated compressor for air assist
- Rotary device to engrave round parts, maximum diameter 130mm (5.1")

Additional Information

DOTgroup International are able to offer a comprehensive range of alternative Laser Engraving Machines with Engraving Area's up to 610mm x 610mm and Power Range variations from 35 watts up to 80 watts. Please contact us for further information and a quotation.

Technical Specifications

Engraving Area	460mm x 305mm (18" x 12")
Z-axis Travel	145mm (5.71")
Engraving Speed	2.540 mm/s
Motor	Precision digital micro-stepper motor
Power Range	35 Watts
Dimensions (W x H x D)	760mm x 440mm x 725mm (30" x 18" x 29")
Weight	43 kg
Interface Hardware	USB
Operating Systems	Windows® NT, 2000, XP, Vista, 7 and 8
Laser Tube	Sealed off CO ² laser
Laser Power	Adjustable from 0 – 100%
Wavelength	CO ² laser source 10.6µm
Safety	CDRH Class 2 (EN60825) & CE compliant
Energy and Power Supply	100V – 240V AC supply
Recommended Fuses	16A (240V) or 15A (100V)
Ambient Temperature	+15°C to +25°C or 59°F to 77°F
Humidity	40% to max 70% not condensing



DOT-LEM35 Laser Fume Extraction System

The DOT-LEM35 laser fume extraction and purification system has been designed as a low cost, yet fully comprehensive unit. This compact and extremely quiet system is ideal for use in sign making workshops, industrial environments and light laser coding applications.

Pre Filter

The pre filter used in the DOT-LEM35 has an efficiency of 95%. This offers maximum protection for the more expensive combined HEPA and gas filter.

HEPA Filter

All HEPA filters are manufactured by specialist filter companies to our specification. This ensures that the latest manufacturing and testing techniques are used. Each filter incorporates a series of bonded webbing between the pleats. This feature not only guarantees even spacing between each pleat, but also alleviates the possibility of airflow vibration or collapse. Filters are individually tested and certified to a minimum efficiency of 99.997% down to 0.3 microns and 95% as small as 0.1 microns. Test certificates are available on request.

Chemical / Gas Filter

The standard chemical filter contains a multi-purpose media to give protection against a range of volatile organic compounds generated when lasering polymers (plastics) and other organic materials.

Filter Replacement

Filters can be replaced quickly, with ease and safety. Each new filter comes with a resilient neoprene gasket fitted. This ensures that there is no filter bypass caused through reusing existing potentially torn or perished built in seals.

Unit & Filter Monitoring System

Each unit is fitted with a continuous monitoring system of 3 coloured LED's, which tell the user of the condition of filters within the system. Green indicates that the filters are clean, amber when filters are getting close to replacement and red when the filters are blocked and requiring changing. The green LED also indicates that the unit is running and all 3 LED's will flash if there is a fault within the system.

Unit Specifications

Carcass

- Manufactured in powder coated mild steel

Standard Filter Set

- Pre-filter 95% efficiency at 0.8 micron
- Activated Carbon Gas / Chemical filter

Electrics

- 230v 50/60Hz or 110v 50/60Hz
- 3m hard wired power cable
- Illuminated On/Off switch
- Full load current amps

Standard Equipment

- 3 year warranty
- Integral silencer
- Unit and filter monitoring system
- Standard filter set
- Weight 35 kg

Blower / Pump

- 30,000 hours life
- 400m³/h
- 0.35kw output
- Brushless motor



DOT-LEM35 Laptop

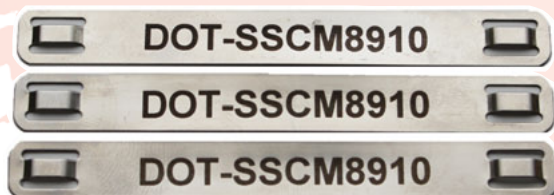
With every DOT-LEM35 Laser Engraving System purchased from DOTgroup International a laptop pre-loaded with the printer driver and both DOTlabel Software and the Graphic Engraving Software ready to 'Plug and Go' is supplied as part of the package. The pre-formatted templates of DOTlabel Software and the user-friendly functions of the Graphic Engraving Software make the production of signs and labels both simple and fast.



DOT-SSCM Stainless Steel Cable Markers

The range of DOT-SSCM Stainless Steel Cable Markers and DOT-SSDT Stainless Steel Dog Tags offer the following features and benefits:

- Labels laser engraved to order - any quantity
- Permanent black text when laser engraved
- All standard stock high quality 316 stainless steel
- Blank labels ex-stock available for immediate dispatch for on-site laser engraving



Part No	Description	Dimensions	MOQ
DOT-LESSCM8910	Laser Engraved Stainless Steel Cable Marker	89mm x 10mm	No MOQ
DOT-LESSCM8919	Laser Engraved Stainless Steel Cable Marker	89mm x 19mm	No MOQ
DOT-LESSDT26	Laser Engraved Stainless Steel Dog Tag	26mm + 5mm hole	No MOQ
DOT-LESSDT38	Laser Engraved Stainless Steel Dog Tag	38mm + 5mm hole	No MOQ
DOT-SSCM8910	Stainless Steel Cable Marker	89mm x 10mm	Pack of 100
DOT-SSCM8919	Stainless Steel Cable Marker	89mm x 19mm	Pack of 100
DOT-SSDT26	Stainless Steel Dog Tag	26mm + 5mm hole	Pack of 100
DOT-SSDT38	Stainless Steel Dog Tag	38mm + 5mm hole	Pack of 100

Physical Testing of Laser Engraved Stainless Steel

Stainless steel tags were totally immersed in the following test solutions using a 35 watt Laser Engraving Machine set at 100% power, 12% speed, 500 DPI and LMM-6000 Laser Engraving Paste.

Organic Solvents	1 Hour	12 Hours	24 Hours	1 Week
Gasoline	No effect	No effect	No effect	No effect
Limonene	No effect	No effect	No effect	No effect
Methyl Ethyl Ketone	No effect	No effect	No effect	No effect
N-Butanol	No effect	No effect	No effect	No effect
Mineral Spirits	No effect	No effect	No effect	No effect
Xylene	No effect	No effect	No effect	No effect
Acetone	No effect	No effect	No effect	No effect
Propylene Carbonate	No effect	No effect	No effect	No effect
Ethanol	No effect	No effect	No effect	No effect
DMSO	No effect	No effect	No effect	No effect
Motor Oil	No effect	No effect	No effect	No effect
Acid / Bases				
Hydrochloric Acid 35%	No effect	No effect	Test stopped - see notes	No effect
Nitric Acid 68%	No effect	No effect	No effect	No effect
Sulfuric Acid (conc.)	No effect	No effect	No effect	No effect
Acetic Acid 99.5%	No effect	No effect	No effect	No effect
Hydrogrn Peroxide 30%	No effect	No effect	No effect	No effect
Sodium Hydroxide 25%	No effect	No effect	No effect	No effect
Ammonium Hydroxide 20%	No effect	No effect	No effect	No effect

Other Testing

Boiling H₂O
Marks soaked in boiling water for 1 hour - no effect

LN² (Cold) Marks dipped in liquid nitrogen - no effect

Flame (Hot)
Marks heated in a propane flame until cherry red - metal discolours, no effect on mark.

Hot / Cold Cycling
Marks heated red hot and immediately plunged in liquid nitrogen - metal discolours, no effect on mark



Hydrochloric Acid Testing:

- Acid dissolves the steel tag and was not run over 12 hours long
- After 1 hour acid dissolved 0.2767 grams off of steel tag (4.7%), laser mark was unaffected
- After 12 hours acid dissolved 1.8057 grams off of steel tag (30.6%), laser mark was unaffected, now having a distinctly raised feel

Sulfuric Acid Testing:

- Acid discolours at approximately 96 hours, mark appears to be slightly discoloured

DOT-ESSCM Embossed Stainless Steel Cable Markers

Material: 316 stainless steel

Text: Pre-embossed multi-character markers

Fixing Method: Stainless steel cable ties - see Page 27

Part No	Description	Dimensions	MOQ
DOT-ESSCM47	Embossed Stainless Steel Cable Marker	47mm x 10.3mm	No MOQ
DOT-ESSCM65	Embossed Stainless Steel Cable Marker	65mm x 10.3mm	No MOQ
DOT-ESSCM87	Embossed Stainless Steel Cable Marker	87mm x 10.3mm	No MOQ
DOT-ESSCM109	Embossed Stainless Steel Cable Marker	109mm x 10.3mm	No MOQ
DOT-ESSCM128	Embossed Stainless Steel Cable Marker	128mm x 10.3mm	No MOQ



DOT-MSSCM Manual Stainless Steel Cable Markers

Material: 316 stainless steel

Text: Embossed single character markers

Standard Legends:

A-Z, 0-9, Å, A, O, +, -, /, ., earth

Fixing Method: Stainless steel cable ties - see Page 27

Part No	Description	Dimensions	Pack Quantity
DOT-MSSCM-*	Single Character Marker	10.9mm x 5.5mm	100
DOT-MSSCS47	Carrier strip max 6 digits	47mm x 10.3mm	100
DOT-MSSCS65	Carrier strip max 9 digits	65mm x 10.3mm	100
DOT-MSSCS87	Carrier strip max 13 digits	87mm x 10.3mm	100
DOT-MSSCS109	Carrier strip max 17 digits	109mm x 10.3mm	100
DOT-MSSCS128	Carrier strip max 20 digits	128mm x 10.3mm	100

* Denotes character required i.e. if letter 'A' required then order DOT-MSSCM-A



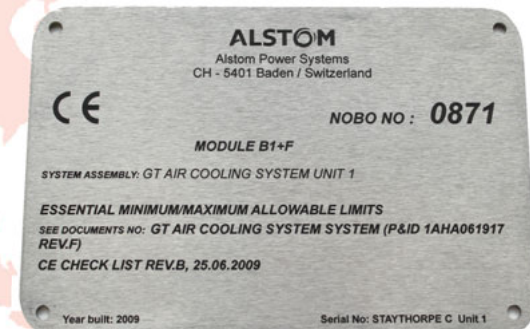
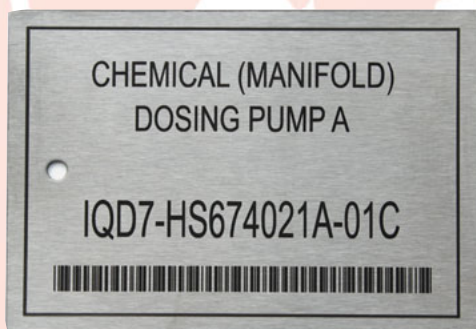
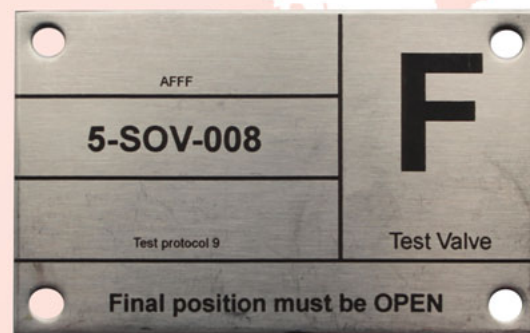
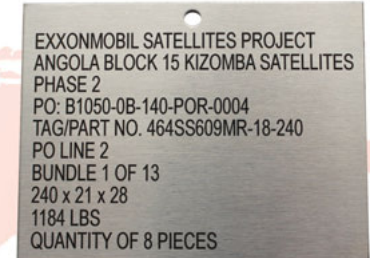


Stainless Steel Laser Engraved Labels, Signs & Plates

The DOTgroup International production facility can manufacture bespoke stainless steel labels, signs and plates in any size, thickness and finish of stainless steel.

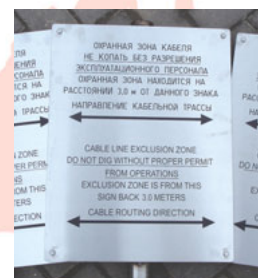
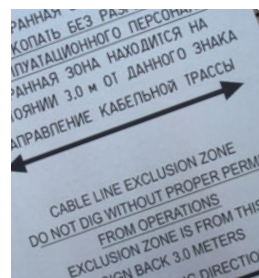
The features and benefits of our laser engraved stainless steel labels are as follows:

- Either 316 or 304 Stainless Steel
- Choice of surface finishes – Natural through to Mirror
- All bespoke labels, signs and plates made to order
- Delivered to site sorted and batched ready for distribution and installation
- Any size – up to 610 x 610mm
- No quantity too small – from 1 label upwards, we'll make it
- Permanent black text when laser engraved
- Either plain, with self-adhesive backing and/or pre-drilled fixing holes



Project Case Study 1

DOTgroup were specified to supply 500 x 380mm dual language (Russian and English text) laser engraved stainless steel signs, pre-fabricated onto 2.5m stainless steel posts, ready for onsite installation, to a major project in Russia.



Project Case Study 2

DOTgroup were specified to supply 300 x 300 x 300mm red concrete blocks to a project in Russia complete with 9" x 9" dual language laser engraved stainless steel signs, manufactured to the size, colour and specifications supplied by the client.



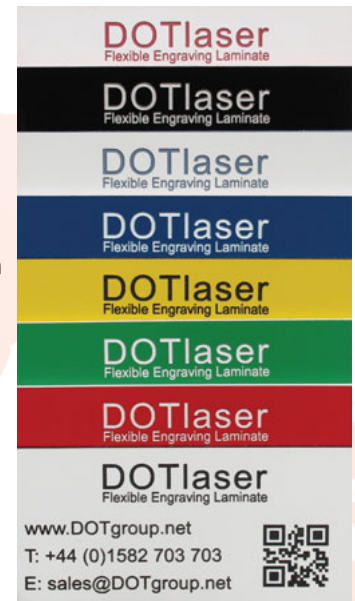


DOTlaser Flexible Engraving Laminate

The DOTlaser Flexible Engraving Laminate is a UV stable micro-surfaced impact acrylic sheet, which is suitable for exterior use. Any size (up to 610 x 610mm), shape and quantity of our DOTlaser FEL engraved labels can be made to order at our in-house production facility or manufactured on site using the DOT-LEM35 Laser Engraving Machine. The flexible alternative to the DOT-REL Rigid Engraving Laminate.

The material was tested for flammability by Underwriters Laboratories and is rated 94 HB on the UL 94 test. The material was judged as not contributing to the combustion of the base material. The DOTlaser FEL has an operating temperature range of -40° to +80° Celsius and can be applied at temperatures as low as +5° Celsius. This gives a wide range of conditions under which the DOTlaser FEL can be used.

The adhesive combines a very high level of adhesive peel and shear performance and has a continuous operating temperature of 93°C (199°F). The adhesive used on the DOTlaser FEL provides good adhesion to both high and low surface energy substrates and has very good UV resistance, as well as, good resistance to both solvents and plasticisers. The excellent initial tack ensures that a bond of good integrity is achieved soon after application.



DOTlaser Flexible Engraving Laminate features & benefits:

- Ability to engrave 2D, QR, code 39 and code 128 barcodes
- UV stable material suitable for exterior use
- DOTlaser FEL rated 94 HB on the UL 94 flammability test
- Superior, high performance self-adhesive backing
- Precision engraving accurate to 1/10th of a millimeter
- Company logo's easily engraved onto any label
- Any size (up to 610 x 610mm) and any shape - with or without fixing holes
- Labels engraved on sheets - easy to sort, quick to apply and fewer lost labels
- Extensive selection of both colour combinations and thicknesses available



Colours	Sheet Sizes	Thicknesses
White with Black Text	610 x 610mm / 406 x 305mm	0.75mm, 1.5mm & 3mm
Black with White Text	610 x 610mm / 406 x 305mm	0.75mm, 1.5mm & 3mm
White with Red Text	610 x 610mm / 406 x 305mm	0.75mm & 1.5mm
Red with White Text	610 x 610mm / 406 x 305mm	0.75mm, 1.5mm & 3mm
White with Blue Text	610 x 610mm / 406 x 305mm	1.5mm
Blue with White Text	610 x 610mm / 406 x 305mm	0.75mm & 1.5mm
Yellow with Black Text	610 x 610mm / 406 x 305mm	0.75mm, 1.5mm & 3mm
Green with White Text	610 x 610mm / 406 x 305mm	0.75mm & 1.5mm



Other colours and sheet sizes available on request, please contact us for further information.

DOTlaser Flexible Engraving Laminate Labelling Service

Any size (up to 610 x 610mm), shape and quantity of our DOTlaser engraved labels can be manufactured to order and delivered direct to site. Simply send the label information electronically, in either Excel or Word, to our in-house production facility and, dependent on quantity required, delivery should take place within 24 - 48 hours. Information can be typed from drawings by arrangement.





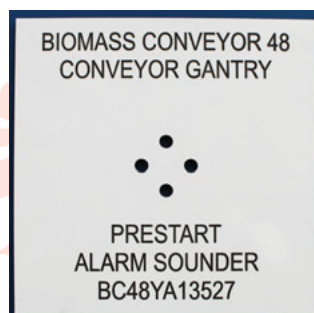
General Labelling & Identification Products, Bespoke Solutions and Accessories



DOT-REL Rigid Engraving Laminate



The DOT-REL Rigid Engraving Laminate is a high pressure laminate which is suitable for exterior use. Any size, shape and quantity of our DOT-REL engraved labels can be made to order at our in-house production facility (up to 1220 x 605mm) or manufactured on site (up to 405 x 300mm) using the DOT-LEM35 Laser Engraving Machine.



The DOT-REL has a Class 2 fire classification according to BS476 Part 7 and is resistant to a wide range of substances and reagents. The DOT-REL has a continuous operating temperature range of -60°C to +100°C, which gives a wide range of conditions under which the DOT-REL can be used.

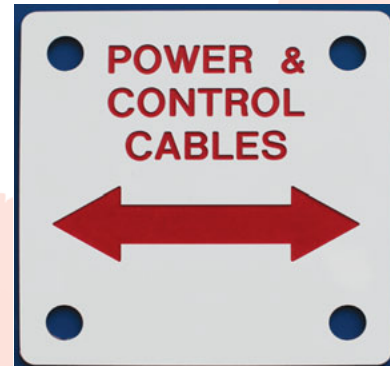
The DOT-REL adhesive features high ultimate bond strength with excellent temperature performance of between -30°C to 204°C. The adhesive provides excellent resistance to UV light, water and solvents. The bond strength increases substantially with natural ageing.

DOT-REL Rigid Engraving Laminate features & benefits:

- Continuous operating temperature range of -60°C to +100°C
- DOT-REL fire classification Class 2 according to BS476 Part 7
- Resistant to a wide range of substances and reagents
- High ultimate bond strength self-adhesive backing
- Company logo's easily engraved onto any label
- Any size (up to 1220 x 605mm) and any shape - with or without fixing holes or adhesive
- Extensive selection of both colour combinations and thicknesses available



Colours	Sheet Sizes	Thicknesses
White with Black Text	1220 x 605mm / 605 x 605mm / 405 x 300mm	1.5mm & 3.0mm
Black with White Text	1220 x 605mm / 605 x 605mm / 405 x 300mm	1.5mm & 3.0mm
Red with White Text	1220 x 605mm / 605 x 605mm / 405 x 300mm	1.5mm & 3.0mm
Green with White Text	1220 x 605mm / 605 x 605mm / 405 x 300mm	1.5mm & 3.0mm
Blue with White Text	1220 x 605mm / 605 x 605mm / 405 x 300mm	1.5mm & 3.0mm
Yellow with Black Text	1220 x 605mm / 605 x 605mm / 405 x 300mm	1.5mm & 3.0mm



Other colours and sheet sizes available on request, please contact us for further information.

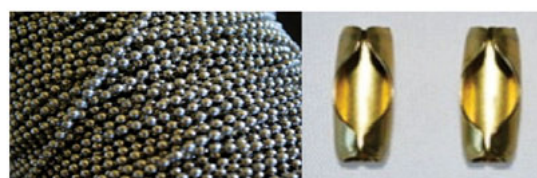
DOT-REL Rigid Engraving Laminate Labelling Service

Any size (up to 1220 x 605mm), shape and quantity of our DOT-REL engraved labels can be manufactured to order and delivered direct to site. Simply send the label information electronically, in either Excel or Word, to our in-house production facility and, dependent on quantity required, delivery should take place within 24 - 48 hours. Information can be typed from drawings by arrangement.

CABINET ID NO:	7788.00.99.A11
POWER SUPPLY:	400Vac / 230Vac 50Hz
FORMAT POWER SUPPLY:	L1-L2-L3-N-PE / L-N
NOMINAL CURRENT:	50
CURRENT VOLTAGE:	24Vdc
Arrival Carousel 10 059320.432.07788.EN	

DOT Ball Chain & Connectors

Part No	Description	Quantity
DOT-MSBC500	Mild Steel Ball Chain	500m reel
DOT-SSC1000	Stainless Steel Connectors	1,000 per bag





DOT-RELEM Rigid Engraving Laminate Engraving Machine

The DOT-RELEM Rigid Engraving Laminate Engraving Machine is the ultimate desktop professional engraving system and with its newly designed controller electronics, faster CPU, support for USB 2, more efficient drives, completely re-written firmware and more efficient drivers, can cope with most industrial engraving tasks.

The DOT-RELEM engraves labels, signs and identification plates with speed & precision and with a generous engraving area of 265 x 205mm (10.4" x 8") and engraving speeds of up to 133mm/sec, no task is too demanding.

Equipped with a state-of-the-art control system, the DOT-RELEM will connect to either a desktop PC or laptop and the uncluttered design combined with the mechanical stability, enables easy and reliable engraving of large or small projects.

Easy to set up and easy to use, the DOT-RELEM enables everyone to engrave labels, signs and identification plates to a professional standard after just a short introduction to the machine.



Technical Data:

Flat work engraving area	265 x 205mm (10.4" x 8.0")
Z axis travel	65mm (2.5")
Z axis clearance	30mm (2") top of beam / 50mm (2") top of jaws
Spindle motor speed	14,000 rpm
Power of spindle motor	42w brushless hall effect DC motor
Interface to PC	USB
Construction	Stainless steel spindle, lead screws (Teflon coated) and linear rails mounted on a steel chassis
Dimensions	460 x 390 x 290mm (18" x 13.35" x 11.4") with integrated controller, weight 24kg / 52lbs
Power requirements	110 - 240V AC 3.5 amp
Acoustic noise level	No-load operation: 75dB (A) or less Standby: 45dB (A) or less (according to ISO 7779)
Operating environment	Temperature: 5 to 38°C (41 to 100°F) Humidity: 35 to 80% (no condensation)
Supplied accessories	Power cable, USB cable, 120° diamond cutter, 0.3mm carbide cutter, cutter knob, vernier nose cone, light touch, engraving software and Quick Start Guide
Minimum PC requirements	Dedicated 2GHz dual core PC running Windows XP (service pack 2+), Windows Vista, 7 or 8, 1Gb RAM, 100Mb free hard disk space

DOT-REL-SI Rigid Engraving Laminate Saw

The DOT-REL-SI is a state of the art precision material cutting saw perfect for cutting the range of DOT-REL Rigid Engraving Laminate as well as other types of materials such as standard plastic engraving stock, laser engraving material, all types of plastics, non-ferrous metals (aluminium & brass), wood, rubber, felt and cardboard, but is not for use on steel, materials containing steel or magnetic materials.

The DOT-REL-SI requires very little assembly, is pre-aligned, and is extremely easy to use. The safety features incorporated in this equipment make it one of the most "worry free" machines on the market, and while it is very important to follow all standard safety procedures during operation, it was truly designed with safety in mind. You will find this product to be extremely accurate, and of high quality construction, which will provide a long service life, if properly maintained.



Technical Data:

Motor / Output / Speed	110 Volt 60 Hz / 350 Watts / 15,000 RPM
Maximum Cutting Length	24 ³ / ₈ " or 620mm
Maximum Material Thickness	1/4" or 6mm
Maximum Light and Non-ferrous Metal Thickness	0.157" (5/32") or 4mm
Maximum Stop Guide Cut Length	8 1/2" or 215mm
Maximum Primary Top Scale Measurement	13 3/4"
Saw Blade	36 Tooth Carbide Tipped (4.72" x 0.067 / 120mm)
Outside Dimensions in Box	10" x 32" x 37"
Weight net / gross	16kg / 20kg
Warranty	One year from date of purchase



DOT-NCT Nylon Cable Ties

Material: Nylon 66
Flame Rating: In accordance with UL94 /V2
Strength: Tensile strength MIL 23190 E
Temperature Range: For continuous use -40°C to +85°C
Colours: Black and Natural
Pack Sizes: 1,000 MOQ – bagged in 100's



Part No.	Length mm	Width mm	Bundle Diameter (mm)	Tensile Strength (kg)	Tensile Strength (lbs)
DOT-NCT-10025-*	100	2.5	22	8.1	18
DOT-NCT-14036-*	140	3.6	33	18.2	40
DOT-NCT-16048-*	160	4.8	40	22.2	50
DOT-NCT-20025-*	200	2.5	53	8.1	18
DOT-NCT-20036-*	200	3.6	53	18.2	40
DOT-NCT-20048-*	200	4.8	53	22.2	50
DOT-NCT-20076-*	200	7.6	53	54.4	120
DOT-NCT-30036-*	300	3.6	76	18.2	40
DOT-NCT-30048-*	300	4.8	76	22.2	50
DOT-NCT-30076-*	300	7.6	76	54.4	120
DOT-NCT-37048-*	370	4.8	102	22.2	50
DOT-NCT-37076-*	370	7.6	102	54.4	120
DOT-NCT-43048-*	430	4.8	110	22.2	50
DOT-NCT-43090-*	430	9.0	110	79.4	175
DOT-NCT-53090-*	530	9.0	140	79.4	175
DOT-NCT-580127-*	580	12.7	152	114	250
DOT-NCT-71090-*	710	9.0	190	79.4	175
DOT-NCT-78090-*	780	9.0	208	79.4	175
DOT-NCT-102090-*	1020	9.0	295	79.4	175
DOT-NCT-1030127-*	1030	12.7	295	114	250

* denotes colour choice. B = Black and N = Natural

Although Nylon cable ties have a wide operating temperature it is not recommended that they should be stored or installed at extremes of temperature.

DOT-NCT Coloured Nylon Cable Ties



Material: Nylon 66
Flame Rating: In accordance with UL94 /V2
Strength: Tensile strength MIL 23190 E
Temperature Range: For continuous use -40°C to +85°C
Colours: Brown, Blue, Red, Yellow and Green
Pack Sizes: 1,000 MOQ – bagged in 100's

Part No.	Length mm	Width mm	Bundle Diameter (mm)	Tensile Strength (kg)	Tensile Strength (lbs)
DOT-NCT-10025-*	100	2.5	22	8.1	18
DOT-NCT-14036-*	140	3.6	33	18.2	40
DOT-NCT-20048-*	200	4.8	53	22.2	50
DOT-NCT-30048-*	300	4.8	76	22.2	50

* denotes colour choice. BR = Brown, BL = Blue, R = Red, Y = Yellow and G = Green



DOT-SSCT Stainless Steel Cable Ties

The range of self-locking ball-lock DOT-SSCT Stainless Steel Cable Ties are manufactured from 316 grade stainless steel and are available both uncoated and epoxy coated. They are recommended for low and high voltage cable support, clamping and restraint applications in extreme conditions where strength, vibration, radiation, weathering, corrosion and temperature extremes are a factor.



DOT-SSCT Stainless Steel Cable Ties provide exceptional resistance to both weathering and ageing and also have a high resistance to corrosion and chemical attack with special durability against salt water and spray. DOT-SSCT Stainless Steel Cable Ties can also achieve very high working temperatures for fire proof and fire resistant cable applications and are used for extreme mechanical, chemical, radiation & temperature environments such as aircraft, power plants, mines, rail, tunnels and oil and gas platforms.

Approvals & Standards

- DNV, US Coast Guard approved & UL listed

Maximum Operating Temperature

- Uncoated SS Cable Ties = 572°F (300°C)
- Epoxy Coated SS Cable Ties = 300°F (149°C)

Part No.	SS Grade	Size mm	Max Bundle Dia. mm	Loop Tensile N	Pack Quantity
DOT-SSCT150	316	150 x 4.6	30	890	100
DOT-SSCT201	316	201 x 4.6	50	890	100
DOT-SSCT259	316	259 x 4.6	69	890	100
DOT-SSCT300	316	300 x 4.6	85	890	100
DOT-SSCT360	316	360 x 4.6	102	890	100
DOT-SSCT520	316	520 x 4.6	152	890	100
DOT-SSCT680	316	679 x 4.6	203	890	100

Part No.	SS Grade	Size mm	Max Bundle Dia. mm	Loop Tensile N	Pack Quantity
DOT-CSSCT150	Coated 316	150 x 4.6	37	668	100
DOT-CSSCT201	Coated 316	201 x 4.6	50	668	100
DOT-CSSCT259	Coated 316	259 x 4.6	69	668	100
DOT-CSSCT300	Coated 316	300 x 4.6	85	668	100
DOT-CSSCT360	Coated 316	360 x 4.6	102	668	100
DOT-CSSCT520	Coated 316	520 x 4.6	152	668	100
DOT-CSSCT680	Coated 316	679 x 4.6	203	668	100

Part No.	SS Grade	Size mm	Max Bundle Dia. mm	Loop Tensile N	Pack Quantity
DOT-SSCT201H	316	201 x 7.9	50	1335	100
DOT-SSCT259H	316	259 x 7.9	69	1335	100
DOT-SSCT360H	316	360 x 7.9	102	1335	100
DOT-SSCT520H	316	520 x 7.9	152	1335	100
DOT-SSCT680H	316	679 x 7.9	203	1335	100

Part No.	SS Grade	Size mm	Max Bundle Dia. mm	Loop Tensile N	Pack Quantity
DOT-CSSCT201H	Coated 316	201 x 7.9	50	779	100
DOT-CSSCT259H	Coated 316	259 x 7.9	69	779	100
DOT-CSSCT360H	Coated 316	360 x 7.9	102	779	100
DOT-CSSCT520H	Coated 316	520 x 7.9	152	779	100
DOT-CSSCT680H	Coated 316	679 x 7.9	203	779	100



The DOT-SSCTTT Stainless Steel Cable Tie Tensioning Tool will both tension and cut off the full range of uncoated and epoxy coated 316 stainless steel cable ties. Weighing only 0.567kg the DOT-SSCTTT will also tension and cut off Ties up to 12mm wide regardless of material or coating.

DOT-SSCS Stainless Steel Cable Strap

The DOT-SSCS Stainless Steel Cable Strap can be used with the DOT-CSCS Cable Strap Cushion Sleeve on applications requiring insulation, protection from high vibration, improved gripping on non-resilient objects, separation between dissimilar metals and added bundle protection.

The DOT-SSCS system offers a labour and material cost saving alternative to cable cleats and is designed to perform in a wide range of harsh environments, including industries such as Oil and Gas, Power Generation and Shipbuilding.



The DOT-CSSCS Coated Stainless Steel Cable Strap is an alternative cleat replacement system which again offers significant cost savings in both labour and material. A high quality product manufactured from 316 Stainless Steel and PPA coated, has also attained the certification for the prEN 50368 Short Circuit Test "Cable Cleats for Electrical Installations". Technical Data Sheets and Short Circuit Test Data available on request.

Part No.	Description	Length	Width	MOQ
DOT-CSSCS-400-16	PPA coated 316 Stainless Steel Cable Strap	400mm	15.88mm	Pack of 25
DOT-CSSCS-800-16	PPA coated 316 Stainless Steel Cable Strap	800mm	15.88mm	Pack of 25
DOT-SSCS-1168-19	316 Stainless Steel Cable Strap	1168mm	19mm	Pack of 25
DOT-SSCTTT	Stainless Steel Cable Strap Tensioning Tool			1

DOT-CSCS Cable Strap Cushion Sleeve

The DOT-CSCS201 is a PVC Cable Strap Cushion Sleeve and the DOT-CSCS202 is a TPE, Low Smoke, Flame Retardant and Halogen Free Cable Strap Cushion Sleeve, which are both specifically manufactured for use with the DOT-SSCS Stainless Steel Cable Straps.

Both the DOT-CSCS201 and DOT-CSCS202 Cable Strap Cushion Sleeves can be used on applications requiring insulation, protection from high vibration, improved gripping on non-resilient objects, separation between dissimilar metals & added bundle protection.



Part No.	Description	Material	Dimensions	MOQ
DOT-CSCS201	Cable Strap Cushion Sleeve	PVC	20mm x 30.5m/100ft	10 rolls
DOT-CSCS202	Cable Strap Cushion Sleeve	TPE	20mm x 30.5m/100ft	10 rolls



DOT - Pipeline Identification Tape

Heavy-Duty Pipeline Identification Tape

Product Overview

The DOT-heavy-duty Pipeline Identification Tape is exactly as its name suggests, heavy-duty, long-lasting tape, which is designed and manufactured to endure arduous conditions. The industry was calling out for a product, which could not only stand up to the extreme weather conditions of the North Sea, but also have a temperature performance capable of performing in diverse climatic variations worldwide.

The outdoor heavy-duty Pipeline Identification Tape has been accepted into the industry as clients found the existing products available i.e. PVC tapes and tape machines, were unable to compete with the performance and life expectancy of this product. The product is factory made to order and can be supplied in various formats. The format takes into account two very important factors, safety and installation.

Safety

The format has continuous arrows and reverse wording and British Standard or RAL colouring. This enables the Pipeline Identification Tape to be seen and read from whatever direction you look at the pipe work. For overseas projects this also has proved successful, as we are able to print dual languages on the same heavy-duty tape.

Installation

The other advantage of having continuous arrows and wording is the time and labour saved on installation time. This is achieved by not having to line up the directional arrows and wording, and having to cut the tape at a certain length to not overlap and distort the existing wording. With our heavy-duty Pipeline Identification Tape manufactured with the wording, arrows, colours and backing sheet all on one roll, these problems do not occur, and installation is fast, precise, clear and above all, safe.

Benefits

The DOT-heavy-duty Pipeline Identification Tape has considerable advantages over other forms of marking process pipe work. Detailed below are some of the benefits that can be achieved by using the product.



Low Chloride Level's - from experience we found that this is a very important issue and a huge benefit to you the client. The product does not affect stainless steel, causing no corrosion etc, and it can be applied directly onto the pipe work, which means that the product is flat to the surface and there will be no build up of salt or dirt under the identification tape. In the long term this means that the maintenance of this product is minimal when compared to a banded or snap on product.

Backing Sheet - ideal when applying to narrow pipe work, this saves time on installation as the product can be slid in between the pipes without adhering, so can be cut to the required length and then applied simply and quickly.

Temperature Performance - minus 40°C to +150°C (minus 40° to +300°F) so works well in either extreme cold or hot environments.

Dual Language - the product can be supplied in any language or a mixture of two languages, which is ideal for locations where English is not the first spoken language.

Water, Chemical and Humidity Resistant - tape not affected by Oil, Petroleum, Detergent / Water, Sulphuric Acid, Bleach / Water, Washer Solution and Ethylene Glyco / Water.

High Strength Acrylic Adhesive - provides permanence, high adhesion to metals, plastics and painted surfaces, excellent long-term ageing and resists flagging and edge-lifting on flat or curved smooth surfaces.



General Purpose Pipeline Identification Tape

Please contact us for further information on the range of general purpose tape available.



DOT Manual Cable Markers & Carrier Strips

DOT-POK Manual Cable Markers

- Oval combination marker used for cable and wire marking applications
- For larger diameters the DOT-POK Cable Markers are used in conjunction with the DOT-POH and DOT-PKH carrier strips, enabling any size of cable or pipe to be marked.
- Specially designed oval profile eases installation and means the marker maintains its position when fitted.
- Designed to interlock when fitted enabling easy alignment of multiple character markings.
- Suitable for cable diameters up to 7.0mm (cable size 4.0 - 6.0mm²)



Part No.	Description	Pack Quantity
DOT-POK*	Single Character Marker	500 piece disc
* Denotes character required ie if letter 'A' required then order DOT-POKA		



DOT-POH Carrier Strips

- Flat, wear resistant holder with two raised anchor points for quick and easy threading of cable ties
- Designed for multi character marking using DOT-POK Manual Cable Markers
- Raised arms hold DOT-POK's in place
- Available in black or yellow



Part No.	Description	Packaging	Material
DOT-POH 7	7 digit carrier strip	100 pieces	Rigid PVC
DOT-POH 12	12 digit carrier strip	100 pieces	Rigid PVC
DOT-POH 18	18 digit carrier strip	100 pieces	Rigid PVC
DOT-POH 30	30 digit carrier strip	100 pieces	Rigid PVC

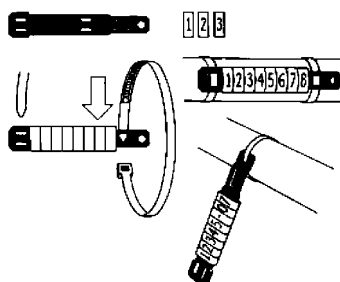


DOT-PKH Carrier Strips – Multi Purpose Fittings

- Flat, hard-wearing holder with fastening holes for cable ties, wires, screws and rivets
- Four attachment points allow length adaption
- Designed for multi character marking using DOT-POK Manual Cable Markers
- No tools needed for installation



Application



Part No.	Description	Packaging	Material
DOT-PKH 70	10 digit carrier strip	100 pieces	Rigid PVC
DOT-PKH 110	20 digit carrier strip	100 pieces	Nylon 6.6



DOT Manual Core Idents

DOT-PA Chevron Cut Manual Markers

- Closed, secure, marker sleeve for unconnected wires and cables
- Designed for electrical, pneumatic, hydraulic etc., applications
- High quality hot-foil marking
- Unique profile with spring-action bellows covers a wide variety of diameters with a single marker size therefore reducing marker stock requirements
- Designed to interlock when fitted, enabling easy alignment of multiple character markings
- High environmental tolerance and excellent legibility



Specification

Material:	Cadmium-free soft PVC
Colours:	Black on white, black on yellow or to International resistor colour code. Other colour combinations available to order
Print:	Hot-foil stamped
Temperature:	The shape is permanent between -30°C to +70°C
Properties:	Self-extinguishing, good resistance to chemicals and gamma radiation
Standard Legends:	0-9, A-Z, +, -, /, earth, or blank. Special symbols available to order

Profile	Part No.	Size Range	Length (mm)	Packaging
	DOT-PA 02	Ø 1.7 - 2.8mm 0.5 - 0.75mm ²	3mm	1000 piece reel 250 piece handy pack 500 piece disc 1000 loose strip pack (5 x 200)
	DOT-PA 1	Ø 2.5 - 5.0mm 0.75 - 4.0mm ²	3mm	1000 piece reel 250 piece handy pack 500 piece disc 1000 loose strip pack (5 x 200)
	DOT-PA 2	Ø 4.0 - 10mm 2.5 - 16mm ²	4mm	250 piece disc 500 loose strip pack (5 x 100)
	DOT-PA 3	Ø 8.0 - 16mm 16 - 70mm ²	6mm	100 loose strip pack (5 x 20)

DOT-PZ Straight Cut Manual Markers

The DOT-PZ series is a straight cut version of the best selling DOT-PA Chevron Cut marker, available in the most popular sizes and several different packaging styles including reusable plastic boxes.

Specification

Material:	Cadmium-free soft PVC
Colours:	Black on white, black on yellow or to International resistor colour code. Other colour combinations available to order
Print:	Hot-foil stamped
Temperature:	The shape is permanent between -30°C to +70°C
Properties:	Self-extinguishing, good resistance to chemicals and gamma radiation
Standard Legends:	0-9, A-Z, +, -, /, earth, or blank. Special symbols available to order

Profile	Part No.	Size Range	Length (mm)	Packaging
	DOT-PZ 02	Ø 1.7 - 2.8mm 0.5 - 0.75mm ²	3mm	1000 piece reel 1000 loose piece strip pack (5 x 200) 1000 piece in plastic box (5 x 200)
	DOT-PZ 1	Ø 2.5 - 5.0mm 0.75 - 4.0mm ²	3mm	1000 piece reel 1000 loose piece strip pack (5 x 200) 1000 piece in plastic box (5 x 200)
	DOT-PZ 2	Ø 4.0 - 10mm 2.5 - 16mm ²	4mm	500 loose piece strip pack (5 x 100) 250 piece disc 500 loose in plastic box (5 x 100)



DOT-PC Open Style Manual Markers

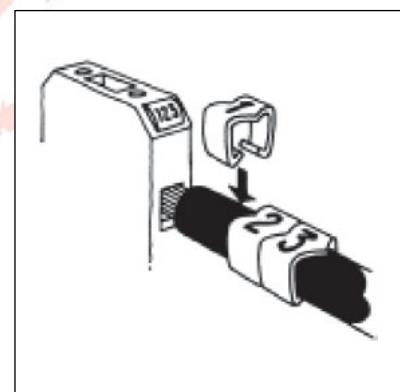
- Open marker sleeve for post-termination marking
- Securely positioned with the help of special legs
- Fast, snap-on installation
- Designed for electrical, pneumatic, hydraulic etc., applications
- Designed to interlock when fitted enabling easy alignment of multiple character markings
- High environmental tolerance and excellent legibility



Specification

Material:	Cadmium-free rigid PVC
Colours:	Black on white, black on yellow or to international resistor colour code
Print:	Hot-foil stamped
Temperature Range:	Shape permanent between -30°C to +60°C
Properties:	Self-extinguishing, good resistance to chemicals and gamma radiation
Standard Legends:	0-9, A-Z, +, -, earth, / or blank. Special symbols available to order

Part No.	Description	Packaging
DOT-PC 10	Ø 2.4mm - 3.0mm 0.5mm ²	1000 piece strip pack
DOT-PC 20	Ø 3.0mm - 4.0mm 0.75, 1.0 and 1.5mm ²	1000 piece strip pack
DOT-PC 30	Ø 4.0mm - 5.0mm 2.5 and 4mm ²	1000 piece strip pack
DOT-PC 40	Ø 5.0mm - 6.2mm 6mm ²	1000 piece strip pack

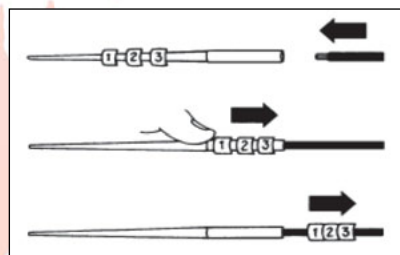


DOT Manual Marker Applicators

Teflon Coated Stainless Steel Applicators



Part No.	Colour	Recommended For	For Use With
DOT-PUJ 3T	Red	Ø 1.5 - 2.5mm 0.5mm ²	DOT-PA02 & DOT-PZ02
DOT-PUJ 4T	Dark Blue	Ø 2.5 - 3.5mm 0.75, 1.0, 1.5mm ²	DOT-PA02, DOT-PZ02, DOT-PA1 & DOT-PZ1
DOT-PUJ 5T	Light Blue	Ø 3.5 - 4.4mm 2.5, 4.0mm ²	DOT-PA1 & DOT-PZ1



Nylon Applicator

Part No.	Recommended For	For Use With
DOT-MD 10	Ø 2.5 - 4.4mm 0.75, 1.0, 1.5, 2.5, 4.0mm ²	DOT-PA1 & DOT-PZ1





Fire, Safety, Hazardous Area & General Warning Signs

Fire Fighting Equipment



Emergency Escape



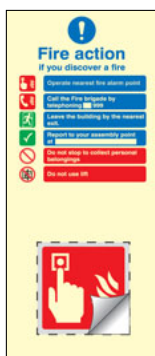
Fire Doors / Action



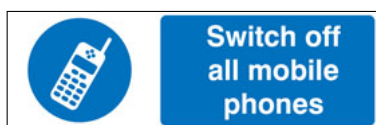
Braille & Tactile



Photoluminescent

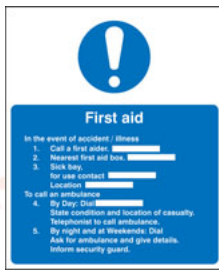


General Warning





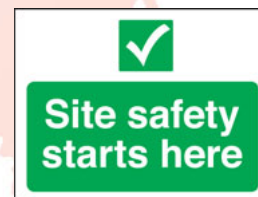
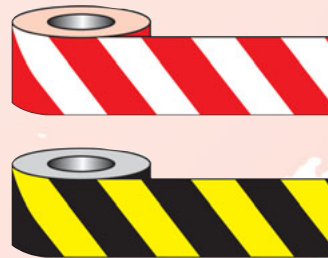
First Aid



Multi Purpose



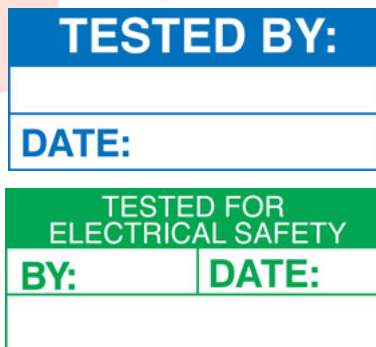
Construction



Site Safety



Quality Control



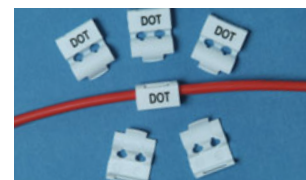
A separate Fire, Safety, Hazardous Area & General Warning Signs brochure is available on request.



DOT-SFC – Slim Fix Clips

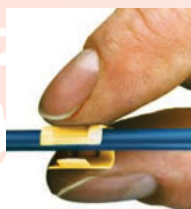
The DOT Slim Fix Clip (DOT-SFC) unites the optimal combination of a secure fit and high flexibility during the marking process. The unique clip mechanism offers the security of a closed marker and the rapid fitting of an open marker in one.

DOT Slim Fix Clip is available in four different sizes and in 12mm, 21mm and 30mm lengths. Very long number combinations are possible, depending on the tag length.



The DOT-SFC - Slim Fix Clips features and benefits:

- Halogen-free material with flammability rating V2
- Slim marker with compensating device for secure fitting
- Clip mechanism enables secure fitting even after the cable is connected
- Rapid fitting without the use of additional tools
- Four sizes for wire cross-sections from 0.5mm² to 10.0mm²
- Available in 12mm, 21mm and 30mm lengths
- Temperature range -40°C to +100°C
- Additional marking space for exact project allocation
- Pre-Printed DOT-SFC Slim Fix Clip markers available on request, laser-printed according to individual requirements

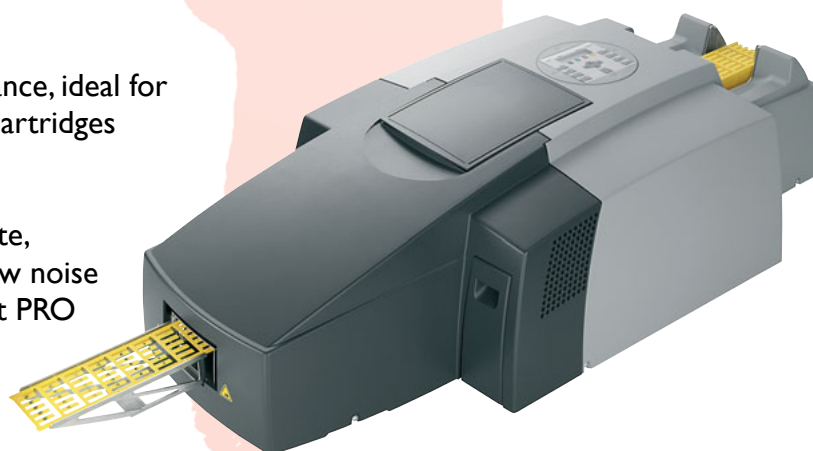


Part No.	Lengths	External Ø	Cross Section
DOT-SFC0	12, 21 & 30mm	1.5 – 2.5mm	0.5 – 1.0mm ²
DOT-SFC1	12, 21 & 30mm	2.0 – 3.5mm	0.75 – 2.5mm ²
DOT-SFC2	12, 21 & 30mm	2.5 – 5.0mm	2.5 – 4.0mm ²
DOT-SFC3	12, 21 & 30mm	3.5 – 7.0mm	4.0 – 10.0mm ²

DOT-PrintJet PRO Printer

The DOT-PrintJet PRO printer is based on an evolution in printing technology.

- **Cutting edge technology**
Fast, colour, top quality, high resistant printing
- **Reliability**
Perfect for constant use, low maintenance, ideal for large quantities and high-capacity ink cartridges
- **Safety**
Water-based ink so no hazardous waste, environmentally friendly, no odours, low noise level and auto stop when DOT-PrintJet PRO printer is opened
- **Ease of use**
Ergonomic due to pivoted display, easy to replace ink cartridges and automatic DOT-SFC Slim Fix Clip feed via integrated loader





DOTlabel Software

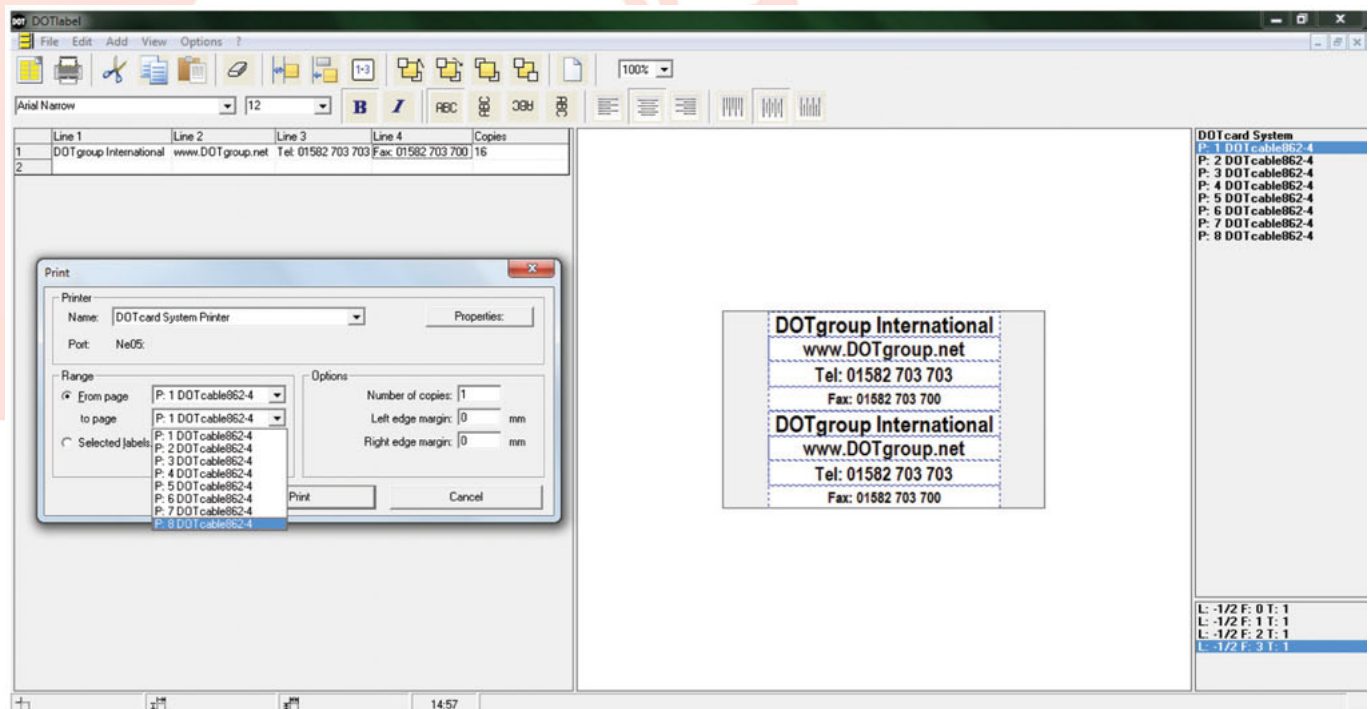
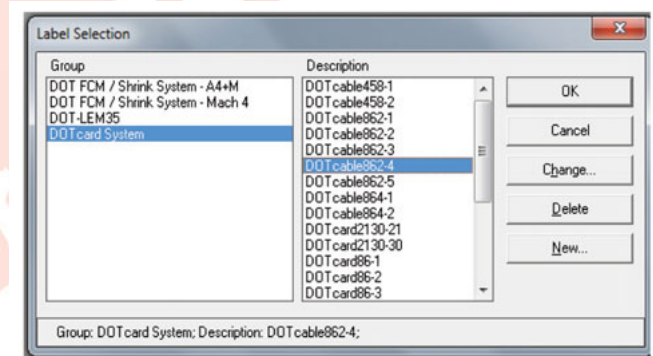


DOTlabel Software helps make child's play of printing labels and offers you all you need to produce the necessary markers quickly and simply. It is the software solution for the printing of any type of label from the DOTgroup Cable Marker and Core Ident range.

DOTlabel Software includes various import functions to optimise your marking procedures, enabling the easy transfer of the necessary data directly from Word or Excel into pre-installed templates. Manual entry of the data is considerably simplified by the automatic numbering function, which permits convenient, easy production of labels, consecutive numbers or repetitive sequences.

DOTlabel Software features & benefits

- Pre-installed templates for entire range of DOTgroup Cable Markers & Core Idents
- Copy and paste complete projects direct from Excel or Word
- Manually type individual labels straight into DOTlabel Software
- Quantities generator - simply add number of labels required for each individual label
- Page-by-Page preview prior to printing
- Simple font formatting
- Print individual pages or complete project
- Options for advance formatting
- Easy to use – minimal training required
- Clear layout working left to right of PC screen
- Ability to import and print Company logo's
- WYSIWYG - What you see is what you get!



DOTlabel Software is compatible with Windows XP, Vista, 7 and 8 Operating Systems.



DOT Underground Cable Protection Covers

Manufactured from high impact, recycled polyethylene, DOT Underground Cable Protection Covers have been specifically designed to withstand damage from plant and tools. Each electric cable cover provides a highly visible and durable warning against accidental damage from third parties.

DOT-UCPC provide high visibility, ease of installation and ability to resist both hand tools and mechanical plant and are the product of choice for utility protection applications, particularly for high voltage cables.

While offering a high level of durability and impact resistance, the plastic cable covers are light in weight and exceptionally easy to handle and install. They are fully jointed, laid overlap and held firm with plastic pegs to ensure continuous protection.



DOT-UCPC features & benefits:

- Impact resistant - doesn't shatter on impact
- Provides clear visual warning to third parties when uncovered
- Custom made in different colours and sizes (subject to MOQ)
- Custom made in dual language (subject to MOQ)
- Custom made with company name and logo (subject to MOQ)
- Fully jointed to provide unbroken protection
- Contains bold warning text for clear identification
- Lightweight - easy to transport, carry and install
- Rot proof and resistant to wide range of soil conditions

Standards & Approvals:

- Impact protection to BS2484, 1985, Part 4 Appendix A
- ENA-TS 12-23, Issue 3 2013
- National Grid TS 3.05.07 Issue 6 2011 Appendix A
- Approved & specified by utility companies worldwide

Part No.	Description	Length	Width
DOT-UCPC-450	Underground Cable Protection Covers	1000mm	450mm
DOT-UCPC-300	Underground Cable Protection Covers	1000mm	300mm
DOT-UCPC-244	Underground Cable Protection Covers	1000mm	244mm
DOT-UCPC-152	Underground Cable Protection Covers	1000mm	152mm



Subject to minimum order quantities DOT Underground Cable Protection Covers can be custom made in different colours, sizes, printed with a company name & logo and in either an alternative language to English or even dual language. Please contact us for further information.

DOT Underground Cable Protection Rolls

The DOT Underground Cable Protection Rolls are manufactured from high impact recycled polyethylene and is a flexible product supplied on rolls for quick and easy installation. Suitable for low voltage, 11 Kv, street lighting, telecoms / fibre optics, gas pipe and water piping. The DOT-UCPR provides a high level of durability and protection to buried utilities, is extremely cost-effective in use and is designed to provide a clear visual warning when uncovered.



DOT Underground Cable Protection Rolls features & benefits:

- Provides clear visual warning to third parties when uncovered
- Custom made in different colours and sizes (subject to MOQ)
- Custom made in dual language (subject to MOQ)
- Custom made with company name and logo (subject to MOQ)
- Flexible, lightweight and easy to install irrespective of weather conditions
- Durable with good impact resistance
- Rot proof and resistant to wide range of soil conditions
- Extremely cost effective in use
- Approved & used by utility companies throughout the world
- Approved to ENA-TS 12-23, Issue 3 2013 & National Grid TS 3.05.07 Issue 6 2011 Appendix A standards



Applications of DOT Underground Cable Protection Rolls:

- Electric: Red/Brown background with yellow tape/black lettering
- Fibre Optic: Green background with black lettering
- Gas: Yellow background with black lettering
- Water: Blue background with black lettering

Part No.	Description	Length	Width	Thickness
DOT-UCPR-150	Underground Cable Protection Rolls	40m	150mm	2.5mm
DOT-UCPR-200	Underground Cable Protection Rolls	40m	200mm	2.5mm

- Other sizes for Fibre Optic, Gas and Water pipe protection are available on request
- DOT-UCPR can be produced up to 4mm thickness and 600mm width

Subject to minimum order quantities DOT Underground Cable Protection Rolls can be custom made in different colours, sizes, printed with a company name & logo and in either an alternative language to English or even dual language. Please contact us for further information.



DOT Underground Warning Tape

The DOT Underground Warning Tape is a self-coloured warning tape overprinted with a warning text, designed to mark the position of buried utility lines and help reduce the risk of third party damage.

The tape is made from 100% Virgin Grade LDPE (low density polyethylene) with high acid and alkali resistance and is free from PVC.

Part No.	Description	Width	Thickness	Length	Weight	MOQ
DOT-UWT-*	LDPE Underground Warning Tape	150mm	50mu	365m	2.5kg	1 roll

* = Please indicate wording required. Custom wording, including dual language, can be made to order.

CAUTION CAUTION CAUTION CATHODIC PROTECTION CABLE	CAUTION CAUTION CAUTION FIBRE OPTIC CABLE BELOW	CAUTION CAUTION CAUTION COMMUNICATIONS CABLE BELOW	CAUTION CAUTION CAUTION ALARM CABLE BELOW	CAUTION CAUTION CAUTION PRIMARY TRUNK MAIN BELOW
CAUTION CAUTION CAUTION NON POTABLE WATER BELOW	CAUTION CAUTION CAUTION SURFACE WATER DRAIN BELOW	CAUTION CAUTION CAUTION OIL PIPELINE BELOW	CAUTION CAUTION CAUTION FUEL MAIN BELOW	CAUTION CAUTION CAUTION HEATING MAIN BELOW
CAUTION CAUTION CAUTION BURIED PIPELINE BELOW	CAUTION CAUTION CAUTION GAS MAIN BELOW	CAUTION CAUTION CAUTION HIGH VOLTAGE CABLE BELOW	CAUTION CAUTION CAUTION RECLAIMED WATER BELOW	CAUTION CAUTION CAUTION DATA CABLE BELOW
CAUTION CAUTION CAUTION RAIN WATER MAIN BELOW	CAUTION CAUTION CAUTION DRAIN BELOW	CAUTION CAUTION CAUTION BURIED SERVICES BELOW	CAUTION CAUTION CAUTION PRESSURE SEWER BELOW	CAUTION CAUTION CAUTION SEWERAGE PUMPING MAIN BELOW
CAUTION CAUTION CAUTION FIRE MAIN BELOW	CAUTION CAUTION CAUTION HIGH PRESSURE PIPELINE BELOW	CAUTION CAUTION CAUTION ELECTRIC CABLE BELOW	CAUTION CAUTION CAUTION TELEPHONE CABLE BELOW	CAUTION CAUTION CAUTION LOW VOLTAGE CABLE BELOW
CAUTION CAUTION CAUTION CABLE TV & TELEPHONE	CAUTION CAUTION CAUTION STORM DRAIN BELOW	CAUTION CAUTION CAUTION FIN DRAIN BELOW	CAUTION CAUTION CAUTION CHEMICAL PIPE BELOW	CAUTION CAUTION CAUTION SAFETY CAMERA DUCTING BELOW
CAUTION CAUTION CAUTION GEOTHERMAL PIPE BELOW	CAUTION CAUTION CAUTION STREET LIGHTING CABLE BELOW	CAUTION CAUTION CAUTION RAIN WATER PIPE BELOW	CAUTION CAUTION CAUTION SEWER PIPE BELOW	CAUTION CAUTION CAUTION TRAFFIC SIGNAL CABLE BELOW
CAUTION CAUTION CAUTION BURIED CABLE BELOW	CAUTION CAUTION CAUTION CITY CABLE BELOW	CAUTION CAUTION CAUTION GREY / RECYCLED WATER BELOW	CAUTION CAUTION CAUTION ROAD DUCT BELOW	CAUTION CAUTION CAUTION STREET LIGHTING CABLE BELOW
CAUTION CAUTION CAUTION BRINE WATER MAIN BELOW	CAUTION CAUTION CAUTION DISTRICT HEATING PIPE BELOW	CAUTION CAUTION CAUTION WATER MAIN BELOW	CUSTOM PRINTED WORDING	



Technical Information

Substrate	Virgin Grade LDPE (low density polyethylene)
Ink	Highly resistant, solvent based
Core	76mm diameter cardboard core
PVC Content	None – the tape contains no PVC
Resistance to Acid	Highly resistant down to 2.5pH
Resistance to Alkali	Highly resistant up to 11pH
Elongation	300%

DOT Underground Wire Detectable Tape

The DOT Underground Wire Detectable Tape is a plastic warning tape with a twin stainless steel tracer wire system designed to mark, locate and help protect underground utility lines. The two wires are laminated within the tape in a continuous 'wave' pattern that allows them to stretch by over 25%, which helps compensate for underground movement.

The DOT-UWDT is self-coloured and overprinted with a warning message and a 'scratch-resistant' layer of transparent plastic which covers the printing. The tape serves the dual purpose of allowing location from above ground as well as providing a visual warning to prevent third party damage.



DOT Underground Wire Detectable Tape features & benefits:

- Two tracer wires rather than a single tracer – double the detection ability
- Wavy wires - allows the wires to stretch by 25% - helps compensate for underground movement
- Easy to join - no tapes, staples, scratching off insulation etc – electrical continuity is maintained by simply twisting the wires together. A more secure method is to use the DOT-UWDT-CT Crimping Tool and DOT-UWDT-JC100 Joining Crimps.
- Scratch proof surface – maintains the legibility of the printing warning message
- PVC Free

Part No.	Description	Width	Thickness	Length
DOT-UWDT-*	Standard Underground Wire Detectable Tape	150mm	150mu	100m
-	Custom Underground Wire Detectable Tape	40-200mm	150mu	100-250m

* = Please indicate wording required. Custom wording, including dual language, can be made to order.

Technical Information

Tensile Strength	10 MN/M ²
Elongation at Break	300% (plastic tape)
Elongation at Break	25% (tracer wire)
Resistance to Acid	Good
Resistance to Alkali	Good
PVC Content	No PVC



CAUTION CAUTION CAUTION ELECTRIC CABLE BELOW	CAUTION CAUTION CAUTION WATER PIPE BELOW
CAUTION CAUTION CAUTION NON POTABLE WATER BELOW	CAUTION CAUTION CAUTION STREET LIGHTING CABLE BELOW
CAUTION CAUTION CAUTION SERVICES BELOW	CAUTION CAUTION CAUTION COMPRESSED AIR BELOW
CAUTION CAUTION CAUTION RISING MAIN BELOW	CAUTION CAUTION CAUTION HEATING MAIN BELOW
CAUTION CAUTION CAUTION FUEL MAIN BELOW	CAUTION CAUTION CAUTION PRESSURE SEWER BELOW
CAUTION CAUTION CAUTION SEWER PIPE BELOW	CAUTION CAUTION CAUTION NON POTABLE WATER BELOW
CAUTION CAUTION CAUTION RECLAIMED WATER BELOW	CAUTION CAUTION CAUTION GRAVITY SEWER BELOW
CAUTION CAUTION CAUTION GAS PIPE BELOW	CAUTION CAUTION CAUTION FIBRE OPTIC CABLE BELOW
CAUTION CAUTION CAUTION RAIN WATER PIPE BELOW	CAUTION CAUTION CAUTION SEWERAGE PUMPING MAIN BELOW
CAUTION CAUTION CAUTION COMMUNICATIONS CABLE BELOW	CAUTION CAUTION CAUTION TRAFFIC SIGNAL CABLE BELOW
CAUTION CAUTION CAUTION FIRE MAIN BELOW	CAUTION CAUTION CAUTION ROAD LIGHTING CABLE BELOW
CAUTION CAUTION CAUTION	CAUTION CAUTION CAUTION SURFACE WATER DRAIN BELOW
CAUTION CAUTION CAUTION DUCT BELOW	CAUTION CAUTION CAUTION BRINE MAIN BELOW
CAUTION CAUTION CAUTION GEOTHERMAL PIPE BELOW	CAUTION CAUTION CAUTION POWER CABLE BELOW
CAUTION CAUTION CAUTION HV DUCT BELOW	CAUTION CAUTION CAUTION RAIN WATER PIPE BELOW

DOT Underground Wire Detectable Tape Crimping Tool & Joining Crimps

Simply twist the wires together to maintain electrical continuity or for a more secure join, crimp the two wires using the DOT-UWDT-CT Crimping Tool and DOT-UWDT-JC100 Joining Crimps.

Part No.	Description
DOT-UWDT-CT	Crimping Tool
DOT-UWDT-JC100	Pack of 100 Joining Crimps





DOT Civils

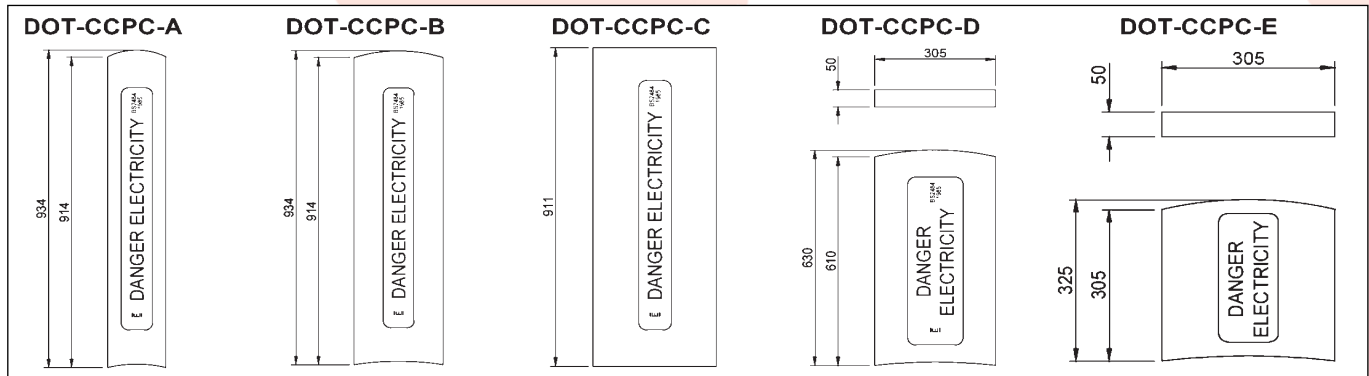
DOT Concrete Cable Protection Covers

DOT Concrete Cable Protection Covers, also known as Cable Route Markers, are used frequently by utility companies to provide a clear indication to site staff who may be working close to underground electrical cables. Covers act as a protective barrier against damage to buried electricity cables eliminating the risk of accidents and costly repairs. They can also be used to locate and identify other underground services.



The DOT Concrete Cable Protection Covers are reinforced precast concrete units manufactured and tested to BS2484 specifications. The covers are imprinted, as standard, with the words 'DANGER ELECTRICITY' and are available in five standard sizes shown below. On request, bespoke covers can be manufactured to order for other services such as Gas, Oil, Chemicals, Water, Propane Line, Fibre-Optic Cable, Telephone etc., please contact us for further information.

Part No.	Length	Width	Depth	Weight
DOT-CCPC-A	914mm	150mm	50mm	16kg
DOT-CCPC-B	914mm	230mm	50mm	24kg
DOT-CCPC-C	914mm	305mm	50mm	32kg
DOT-CCPC-D	610mm	305mm	50mm	22kg
DOT-CCPC-E	305mm	305mm	50mm	11kg



DOT Concrete Marker, Hydrant Indicator & Indicator Posts

The range of precast DOT Concrete Indicator Posts are widely used by utility companies and are installed to assist the location and identification of underground services. They are made from reinforced precast concrete, manufactured and tested to BS1881 standards and are available in a variety of types and sizes, details of which are shown in the tables below. Any other requirements can be made to order.

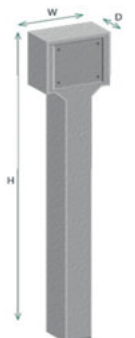
DOT Concrete Marker Posts					
Part No.	Height	Width	Depth	Weight	Narrative
DOT-CGI	770mm	160mm	75mm	24kg	Electric Cables
DOT-CG1A	770mm	160mm	75mm	24kg	Instrument Cables

- Marker Posts are available with or without anchor bases
- Marker Posts have a 98 x 73mm plate recess ready for identification plate



DOT Concrete Hydrant Indicator Posts					
Part No.	Height	Width	Depth	Weight	Narrative
DOT-CG305A	990mm	245mm	75mm	21kg	Blank for plate
DOT-CG305	1220mm	245mm	75mm	26kg	Blank for plate
DOT-CG305B	1370mm	245mm	75mm	33kg	Blank for plate
DOT-CG305C	1525mm	245mm	75mm	40kg	Blank for plate

- Hydrant Indicator Posts have a 205 x 180mm plate recess ready for identification plate
- The posts will accept a single class A Hydrant Indicator Plate to BS3251:1975





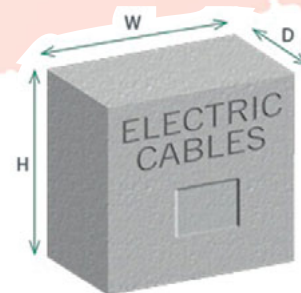
DOT Concrete Indicator Posts					
Part No.	Height	Width	Depth	Weight	Narrative
DOT-CG311	1525mm	100mm	100mm	34kg	DUCT
DOT-CG311A	1525mm	100mm	100mm	34kg	GAS
DOT-CG311B	1525mm	100mm	100mm	34kg	WATER
DOT-CG311C	1525mm	100mm	100mm	34kg	SEWER
DOT-CG311D	1525mm	100mm	100mm	34kg	BOUNDARY
DOT-CG5	1525mm	100mm	100mm	34kg	HABDY



DOT Concrete Marker Blocks

The range of precast DOT Concrete Marker Blocks are primarily used to aid in the location and identification of electric cables and other utility services that are buried underground. They can also be used to mark boundaries and other reference points.

They are made from precast concrete, manufactured and tested in accordance with BS1881 standards and are available in a range of standard sizes with various legends, details of which are shown in the table below. Where applicable the DOT Concrete Marker Blocks have a recess on the underside which houses a 6mm galvanised bar to enable cable draw ropes or similar to be attached. The standard recess size for identification plates is 100mm x 75mm. Any other requirements can be made to order.



DOT Concrete Marker Blocks					
Part No.	Height	Width	Depth	Weight	Narrative
DOT-CG2	300mm	300mm	150mm	32kg	Electric Cables
DOT-CG2B	300mm	300mm	150mm	32kg	High Voltage Cables
DOT-CG2C	300mm	300mm	150mm	32kg	Fibre Optic Cables
DOT-CG2D	300mm	300mm	150mm	32kg	Gas
DOT-CG2E	300mm	300mm	150mm	32kg	Water
DOT-CG2F	300mm	300mm	150mm	32kg	DHM
DOT-CG2G	300mm	300mm	150mm	32kg	Boundary
DOT-CG2H	300mm	300mm	150mm	32kg	BT
DOT-CG2J	300mm	300mm	150mm	32kg	SP
DOT-CG2A	300mm	300mm	225mm	48kg	D
DOT-CG2A	300mm	300mm	225mm	48kg	DD
DOT-CG2A	300mm	300mm	225mm	48kg	J
DOT-CG3	600mm	600mm	100mm	89kg	Electric Cables
DOT-CG4	300mm	300mm	75mm	16kg	Fire Mains
DOT-CG5	150mm	300mm	150mm	15kg	Highway Boundary
DOT-CG5A	100mm	100mm	500mm	12kg	HB

DOT Bespoke Concrete Products

DOTgroup were specified to supply 300 x 300 x 300mm red concrete blocks to a project in Russia complete with 9" x 9" dual language laser engraved stainless steel signs, manufactured to the size, colour and specifications supplied by the client.





DOT Pin Crimps / Cord End Ferrules

DOT Cord End Ferrules

FRENCH TYPE			GERMAN TYPE		
Part No.	Colour	Conductor Size mm ²	Barrel Length mm	Colour	Part No.
DOT-CEF025F	Violet	0.25	6	Light Blue	DOT-CEF025G
DOT-CEF034F	Pink	0.34	8	Green	DOT-CEF034G
DOT-CEF508F	White	0.5	8	Orange	DOT-CEF508G
DOT-CEF7508F	Blue	0.75	8	White	DOT-CEF7508G
DOT-CEFI08F	Red	1.0	8	Yellow	DOT-CEFI08G
DOT-CEFI508F	Black	1.5	8	Red	DOT-CEFI508G
DOT-CEF2508F	Grey	2.5	8	Blue	DOT-CEF2508G
DOT-CEF409F	Orange	4	9	Grey	DOT-CEF409G
DOT-CEF612F	Green	6	12	Black	DOT-CEF612G
DOT-CEFI012F	Brown	10	12	Ivory	DOT-CEFI012G
DOT-CEFI612F	Ivory	16	12	Green	DOT-CEFI612G
DOT-CEF25016F	Black	25	16	Brown	DOT-CEF25016G
DOT-CEF35016F	Red	35	16	Beige	DOT-CEF35016G



Tooling



DOT-CEFT 1
for Cord End Ferrules
(0.5 to 6mm²)

DOT-CEFT 2
for Cord End Ferrules
(4 to 16mm²)

DOT-CEFT 3
for Cord End Ferrules
(16 to 35mm²)

- Adjustment tensioners
- Replaceable jaws
- Ergonomically designed handles reduce user fatigue
- Polished jaws mean that ferrules release easily after crimping
- Long handled ergonomically designed tools also available, details on request

Twin Cord End Ferrules

Part No.	Conductor Size mm ²	Barrel Length mm	Colour
DOT-TCEF508	0.5	8	White
DOT-TCEF7508	0.75	8	Grey
DOT-TCEF7510	0.75	10	Grey
DOT-TCEFI08	1.0	8	Red
DOT-TCEFI10	1.0	10	Red
DOT-TCEFI508	1.5	8	Black
DOT-TCEFI512	1.5	12	Black
DOT-TCEF2510	2.5	10	Blue
DOT-TCEF2513	2.5	13	Blue
DOT-TCEF412	4.0	12	Grey
DOT-TCEF614	6.0	14	Yellow
DOT-TCEFI014	10.0	14	Red
DOT-TCEFI614	16.0	14	Blue

Long Cord End Ferrules

FRENCH TYPE			GERMAN TYPE		
Part No.	Colour	Conductor Size mm ²	Barrel Length mm	Colour	Part No.
DOT-CEF7512F	Blue	0.75	12	White	DOT-CEF7512G
DOT-CEFI12F	Red	1.0	12	Red	DOT-CEFI12G
DOT-CEFI518F	Black	1.5	18	Red	DOT-CEFI518G
DOT-CEF2518F	Grey	2.5	18	Blue	DOT-CEF2518G
DOT-CEF418F	Orange	4	18	Grey	DOT-CEF418G
DOT-CEF618F	Green	6	18	Black	DOT-CEF618G
DOT-CEFI018F	Brown	10	18	Ivory	DOT-CEFI018G
DOT-CEFI618F	Ivory	16	18	Green	DOT-CEFI618G
DOT-CEF25025F	Black	25	25	Brown	DOT-CEF25025G
DOT-CEF35025F	Red	35	25	Beige	DOT-CEF35025G

Un-Insulated Cord End Ferrules

Part No.	Conductor Size mm ²	Length mm
DOT-UCEF510	0.5	10
DOT-UCEF7510	0.75	10
DOT-UCEFI10	1.0	10
DOT-UCEFI510	1.5	10
DOT-UCEF2512	2.5	12
DOT-UCEF412	4.0	12
DOT-UCEF618	6.0	18
DOT-UCEFI018	10.0	18
DOT-UCEFI618	16.0	18
DOT-UCEF25018	25.0	18
DOT-UCEF35018	35.0	18

Please note: Both insulated and un-insulated cord end ferrules are available packed in hundreds or thousands, please specify when ordering.



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Oil & Gas

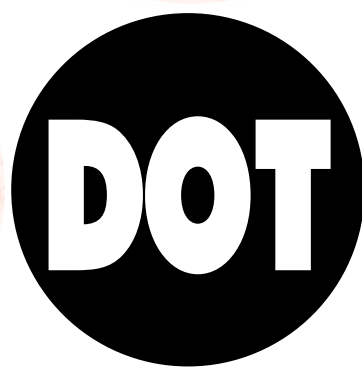
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Renewable Energy

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