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), is a qualified supplier to RISQS 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.

Tel: +44 (0)1582 703 703        Fax: +44 (0)1582 703 700
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 / CBI / 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 / Lamprell

ENL Orlan Platform
Exxon Neftegaz / Fluor

Storegby 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
Petrolac / 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 / EI WHS

Scira Offshore Energy
Sheringham Shoal
Heerema Hardlepool

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 Hardlepool / 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
YMIE Oilfield Abu Dhabi
SBM / Ine / Al Masaood Bergum

BG Tunisia Miskar-B Platform
Consafe

BP Dimlington Gas Terminal
PSN / GTC Group

Shell Koula Gabon
Wilson Mohr / Extarren

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 - Bafour Kilpatrick

Exxon Mobil Adriatic LNG
Aker Kvaerner / Dragados

Fred Olsen Energy Blackford Dolphin - Cronoon

National Grid Felindre Gas Compressor Station - Amec

Vopak Terminal London
PME Carillion

PetroMena ASA PetroRig III
Benwin / Jurong

BP Clair Platform
Amec / Heerema Hardlepool

BP In-Salah Gas Project Algeria
MW Kellogg

Rowan Drilling Gorilla 7
McNulty Offshore

British Gas Juno
Heerema Hardlepool

Conoco Philips Judy / Joanne
Conoco Phillips

Chevron Okan Project
KYE

Shell Goldeneye Onshore
Watson Norie

Petrojac 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
Bafour Kilpatrick

Chevron Texaco SOWIP
Chevron Texaco / KYE

Nexen Petroleum UK Buzzard
CB&I / John Brown / Bi-Fab / Heerema / Dragados / EI WHS

Shell Bacton Gas Terminal
Amec / Watson Norie

Conoco Philips Britannia
Satellites - Bi-Fab / Heerema / Isleburn Mackay & Macleod / EI WHS

Exxon Neftegas Sakhalin I
Bluewater Energy / Amec / Consafe / McNulty Offshore

MSV Regalia
Prosafe

Gasmar Quintero Terminal
CB&I

Petrochemical

Sadara Chemical Complex
Dow Chemical / Fluor

Total Port Arthur Deep Conversion Project
Total / Fluor

BP Kinnell Expansion
BP / Amec / BBESL

Victrax Phase 1
BBESL

Victrax Phase 2
BBESL

Victrax Phase 3
Boultings

Lotte LC / Wilton
SPE WHS

Vivergo Wilton
SSE Contracting

GrowHow UK
SSE

Esso Fawley Refinery
Esso / SEC

Murco Milford Haven Refinery
Murco / SEC

Chevron Pembroke Refinery
Foster Wheeler / Amec / SEC

Petroplus Croyton Refinery
Foster Wheeler / Boultings

Sabic UK Wilton Refinery
Amec

BP Wytych Farm Oil Field
SEC

Victrax 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

Tel: +44 (0)1582 703 703 Fax: +44 (0)1582 703 700
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 Taklama / 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

Selkirk 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

Egborough 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 / Monadophous

Wicet (Wiggins Island Coal Export Terminal) - Monadophous

Boubyl 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
(Chesse 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

4S 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

Mineral

HMP Featherstone
BBESL

Great Northern Hotel
Dornan Engineering

Brunel Academy
Crown House Technologies

BSkyB Asset Maintenance
BSkyB / Norland

JP Morgan
KMK

Oxford Brookes 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

Gyro Hemi 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 LDS
Laing O’Rourke / Crown House

NGD Cardiff Data Centre
SPIE Matthew Hall

Cap Gemini Data Centre
SPIE Matthew Hall

Rolls Royce Bentley Facility
BBESL

NHS QE Hospital Gateshead
BBESL

BSkyB Asset Maintenance
BSkyB / Norland

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
Transportation

TFL Farrington 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
Ferrovi / Vanderlande / JCK / SPIE Matthew Hall

HAL Heathrow T2AA
Balfour Beatty Construction

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 ASSL 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:

<table>
<thead>
<tr>
<th>Test Data</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 4892-2: 1994</td>
<td>Weathering test equivalent to 5 years exposure in a Northern European climate</td>
</tr>
<tr>
<td>ISO 188: 1998</td>
<td>Long term high temperature +85˚C</td>
</tr>
<tr>
<td>ISO 188: 1998</td>
<td>Short term high temperature +180˚C</td>
</tr>
<tr>
<td>MIL-STD-810F: Method 502.4</td>
<td>Long term low temperature -40˚C</td>
</tr>
<tr>
<td>MIL-STD-202G: Method 106G</td>
<td>Long term humidity (4 weeks)</td>
</tr>
<tr>
<td>ASTM B117: 1987</td>
<td>Salt fog resistance (4 weeks)</td>
</tr>
<tr>
<td>MIL-M-81531</td>
<td>Print adherence rub test</td>
</tr>
<tr>
<td>SAE AS81351: Section 4.6.2</td>
<td>Print adherence rub test</td>
</tr>
<tr>
<td>ISO 188: 1998</td>
<td>Salt Mist (Cyclic 4 weeks)</td>
</tr>
<tr>
<td>SAE AS81351: Section 4.6.2</td>
<td>Salt Mist (Cyclic 4 weeks)</td>
</tr>
</tbody>
</table>

Material: Specially formulated Nylon / ABS compound

Marking: Thermal Transfer via DOTcard System printer – see Page 10

Technical Data

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dimensions</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTcable862</td>
<td>Cable Markers</td>
<td>86mm x 27mm</td>
<td>200 Cable Markers per box</td>
</tr>
<tr>
<td>DOTcable864</td>
<td>Cable Markers</td>
<td>86mm x 13.5mm</td>
<td>400 Cable Markers per box</td>
</tr>
<tr>
<td>DOTcable458</td>
<td>Cable Markers</td>
<td>45mm x 10.75mm</td>
<td>800 Cable Markers per box</td>
</tr>
<tr>
<td>DOTvalve3</td>
<td>Valve Tags</td>
<td>28.5mm x 54mm</td>
<td>300 Valve Tags per box</td>
</tr>
<tr>
<td>DOTcard86</td>
<td>Plain Cards</td>
<td>86mm x 54mm</td>
<td>500 Plain Cards per pack</td>
</tr>
</tbody>
</table>

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 dispatch.

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)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dimensions</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTcard2130</td>
<td>Core Idents</td>
<td>21mm or 30mm x 4mm</td>
<td>1200 Core Idents per box</td>
</tr>
</tbody>
</table>

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 slide 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 dispatch.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size Range</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTsleeve21/1</td>
<td>21mm transparent sleeves</td>
<td>Ø 1.7 - 2.8mm (0.5 - 0.75mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve21/2</td>
<td>21mm transparent sleeves</td>
<td>Ø 2.5 - 5.0mm (0.75, 1.0, 1.5, 2.5 &amp; 4.0mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve21/3</td>
<td>21mm transparent sleeves</td>
<td>Ø 4.0 - 10.0mm (2.5 - 16mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve21/4</td>
<td>21mm transparent sleeves</td>
<td>Ø 8.0 - 16mm (16 - 30mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve30/1</td>
<td>30mm transparent sleeves</td>
<td>Ø 1.7 - 2.8mm (0.5 - 0.75mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve30/2</td>
<td>30mm transparent sleeves</td>
<td>Ø 2.5 - 5.0mm (0.75, 1.0, 1.5, 2.5 &amp; 4.0mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve30/3</td>
<td>30mm transparent sleeves</td>
<td>Ø 4.0 - 10.0mm (2.5 - 16mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
<tr>
<td>DOTsleeve30/4</td>
<td>30mm transparent sleeves</td>
<td>Ø 8.0 - 16mm (16 - 30mm²)</td>
<td>1,000 sleeves per bag</td>
</tr>
</tbody>
</table>
DOTcard System Printer (Smart)
The specially modified DOTcard System Smart Printer is one of 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
• 5 year Printer / 3 year Printhead warranty

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTcard-SBR</td>
<td>1,200 image Black Ribbon &amp; Cleaning Roller Kit</td>
<td>No MOQ</td>
</tr>
<tr>
<td>DOTcard-SWR</td>
<td>1,200 image White Ribbon &amp; Cleaning Roller Kit</td>
<td>No MOQ</td>
</tr>
<tr>
<td>DOTcard-SLCC</td>
<td>Printer Head Long Cleaning Card</td>
<td>No MOQ</td>
</tr>
</tbody>
</table>

DOTcard System Printer (Zebra)
The specially modified DOTcard System Zebra Printer is one of 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTcard-ZBR</td>
<td>1,000 image Black Monochrome Ribbon</td>
<td>No MOQ</td>
</tr>
<tr>
<td>DOTcard-ZWR</td>
<td>1,000 image White Monochrome Ribbon</td>
<td>No MOQ</td>
</tr>
<tr>
<td>DOTcard-ZCR</td>
<td>Adhesive Cleaning Rollers</td>
<td>Pack of 5</td>
</tr>
<tr>
<td>DOTcard-ZLCC</td>
<td>Printer Head Long Cleaning Card</td>
<td>No MOQ</td>
</tr>
<tr>
<td>DOTcard-ZSCC</td>
<td>Printer Head Short Cleaning Card</td>
<td>No MOQ</td>
</tr>
</tbody>
</table>

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

The 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, are an easy to print alternative to the DOTcard System.

Manufactured by DOTgroup International in a continuous format these cable markers compliment our range of DOTshrink Heatshrink Tubing and allows users to produce over 3,550 cable markers per hour. All are printed via the reliable and easy to use DOT-FCM / Shrink System thermal transfer printer, which provides accurate printing of all sizes of our DOT-FCM Flexible Cable Markers, DOTshrink Heatshrink Tubing and DOTwrap4x2 wraparound self-adhesive labels.

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

Test Data
The following Test Accreditations have been attained from an independent UKAS certified Test House for the full range of DOT-FCM Flexible Cable Markers:

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dimensions</th>
<th>Spool Quantities</th>
<th>MOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-FCM1376</td>
<td>Cable Markers</td>
<td>13mm x 76mm</td>
<td>325 Cable Markers per spool (approx)</td>
<td>1 spool</td>
</tr>
<tr>
<td>DOT-FCM13102</td>
<td>Cable Markers</td>
<td>13mm x 102mm</td>
<td>245 Cable Markers per spool (approx)</td>
<td>1 spool</td>
</tr>
<tr>
<td>DOT-FCM27176</td>
<td>Cable Markers</td>
<td>27mm x 76mm</td>
<td>325 Cable Markers per spool (approx)</td>
<td>1 spool</td>
</tr>
<tr>
<td>DOT-FCM27102</td>
<td>Cable Markers</td>
<td>27mm x 102mm</td>
<td>245 Cable Markers per spool (approx)</td>
<td>1 spool</td>
</tr>
</tbody>
</table>
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°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°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

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

<table>
<thead>
<tr>
<th>Approvals &amp; Standards</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS3G198 Type IIA &amp; IIB</td>
<td>Temperature Range</td>
<td>-55°C to +135°C</td>
</tr>
<tr>
<td>Def. Stan. 59-97/3 Type 1a &amp; 2b</td>
<td>Temp. max short period</td>
<td>225°C</td>
</tr>
<tr>
<td>SAE-AMS-DTL-23053/5 (MIL-23053/5)</td>
<td>Colour Fastness</td>
<td>Standard 6 minimum</td>
</tr>
<tr>
<td>UL224VW-1 Flammability</td>
<td>Flammability</td>
<td>Self extinguishing</td>
</tr>
<tr>
<td></td>
<td>Tensile Strength</td>
<td>10.0 MPa minimum</td>
</tr>
<tr>
<td></td>
<td>Elongation at Break</td>
<td>250% minimum</td>
</tr>
<tr>
<td></td>
<td>Chemical Resistance</td>
<td>G198 / D.S. 59-97, Good</td>
</tr>
<tr>
<td></td>
<td>Resistance to Mould Growth</td>
<td>BS2011 pt. 2.1J</td>
</tr>
<tr>
<td></td>
<td>Proof Voltage</td>
<td>14kV per 1mm wall thickness</td>
</tr>
<tr>
<td></td>
<td>Max Longitudinal Change</td>
<td>+0%, -5%</td>
</tr>
</tbody>
</table>

**Coloured and Adhesive Lined Heatshrink Tubing**

DOTgroup International can also supply a range of coloured B11 Heatshrink Tubing and Adhesive Lined B11 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 logos (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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Label Size</th>
<th>Printable Area</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTwrap4x2</td>
<td>98mm x 49mm</td>
<td>49mm x 26mm</td>
<td>1,000 labels per roll</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Label Size</th>
<th>Printable Area</th>
<th>Pre-Printed MOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTwrap4x2</td>
<td>98mm x 49mm</td>
<td>49mm x 26mm</td>
<td>No MOQ</td>
</tr>
</tbody>
</table>
**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 – 100-240V ~ 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-FCM-BR</td>
<td>300m x 40mm Black Ribbon</td>
<td>No MOQ</td>
</tr>
<tr>
<td>DOT-FCM-DR</td>
<td>Printer Drive Roller</td>
<td>No MOQ</td>
</tr>
</tbody>
</table>

**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 the 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
- Self-sharpening blades
- Performs circular cut
- Optional cutter tray available
- Low maintenance
- 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
- Storage Conditions: 5°C to 35°C (41°F to 95°F)
- Superior resistance to solvents
- High resolution printing
- 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)

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.

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

Electrical Specification:
• AC adapter input 100-250v AC, 50/60Hz 43w
• AC adapter output: 12DV, 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

Technical Data:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Inside Diameter (mm/in)</th>
<th>Spool Size (metres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-PHC3.2-**</td>
<td>White or Yellow Heatshrink Tubing</td>
<td>3.2 / 0.126</td>
<td>1.6 / 0.063</td>
</tr>
<tr>
<td>DOT-PHC4.8-**</td>
<td>White or Yellow Heatshrink Tubing</td>
<td>4.8 / 0.189</td>
<td>2.4 / 0.094</td>
</tr>
<tr>
<td>DOT-PHC6.4-**</td>
<td>White or Yellow Heatshrink Tubing</td>
<td>6.4 / 0.252</td>
<td>3.2 / 0.126</td>
</tr>
<tr>
<td>DOT-PHC9.5-**</td>
<td>White or Yellow Heatshrink Tubing</td>
<td>9.6 / 0.378</td>
<td>4.8 / 0.189</td>
</tr>
<tr>
<td>DOT-PHC12.7-**</td>
<td>White or Yellow Heatshrink Tubing</td>
<td>12.7 / 0.5</td>
<td>6.4 / 0.252</td>
</tr>
</tbody>
</table>

* denotes colour – please add W for White or Y for Yellow
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 laser 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 Areas 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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engraving Area</td>
<td>450mm x 305mm (18” x 12”)</td>
</tr>
<tr>
<td>Z-axis Travel</td>
<td>145mm (5.71”)</td>
</tr>
<tr>
<td>Engraving Speed</td>
<td>2.540 mm/s</td>
</tr>
<tr>
<td>Motor</td>
<td>Precision digital micro-stepper motor</td>
</tr>
<tr>
<td>Power Range</td>
<td>35 Watts</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>760mm x 440mm x 725mm (30” x 18” x 29”)</td>
</tr>
<tr>
<td>Weight</td>
<td>43 kg</td>
</tr>
<tr>
<td>Interface Hardware</td>
<td>USB</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows® NT, 2000, XP, Vista, 7 and 8</td>
</tr>
<tr>
<td>Laser Tube</td>
<td>Sealed off CO² laser</td>
</tr>
<tr>
<td>Laser Power</td>
<td>Adjustable from 0 – 100%</td>
</tr>
<tr>
<td>Wavelength</td>
<td>CO² laser source 10.6µm</td>
</tr>
<tr>
<td>Safety</td>
<td>CDRH Class 2 (EN80825) &amp; CE compliant</td>
</tr>
<tr>
<td>Energy and Power Supply</td>
<td>100V – 240V AG supply</td>
</tr>
<tr>
<td>Recommended Fuses</td>
<td>16A (240V) or 15A (100V)</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>+15°C to +25°C or 59°F to 77°F</td>
</tr>
<tr>
<td>Humidity</td>
<td>40% to max 70% not condensing</td>
</tr>
</tbody>
</table>
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 laser engraving 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-LEP500 Laser Engraving Paste
The DOT-LEP500 Laser Engraving Paste is recommended for creating black marks onto the range of DOT Stainless Steel Cable Markers and Dog Tags and has been specially designed to dry in a hard coat to allow handling prior to laser marking without rubbing off.

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

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.

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

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
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 logos 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

<table>
<thead>
<tr>
<th>Colours</th>
<th>Sheet Sizes</th>
<th>Thicknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>White with Black Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>1.6mm &amp; 3.2mm</td>
</tr>
<tr>
<td>Black with White Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>0.8mm, 1.6mm &amp; 3.2mm</td>
</tr>
<tr>
<td>White with Red Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>0.8mm, 1.6mm &amp; 3.2mm</td>
</tr>
<tr>
<td>Red with White Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>0.8mm, 1.6mm &amp; 3.2mm</td>
</tr>
<tr>
<td>White with Blue Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>1.6mm</td>
</tr>
<tr>
<td>Blue with White Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>0.8mm, 1.6mm &amp; 3.2mm</td>
</tr>
<tr>
<td>Yellow with Black Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>0.8mm, 1.6mm &amp; 3.2mm</td>
</tr>
<tr>
<td>Green with White Text</td>
<td>610 x 610mm / 406 x 305mm</td>
<td>0.8mm, 1.6mm &amp; 3.2mm</td>
</tr>
</tbody>
</table>

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 logos 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

<table>
<thead>
<tr>
<th>Colours</th>
<th>Sheet Sizes</th>
<th>Thicknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>White with Black Text</td>
<td>1220 x 605mm / 605 x 605mm / 405 x 300mm</td>
<td>1.5mm &amp; 3.0mm</td>
</tr>
<tr>
<td>Black with White Text</td>
<td>1220 x 605mm / 605 x 605mm / 405 x 300mm</td>
<td>1.5mm &amp; 3.0mm</td>
</tr>
<tr>
<td>Red with White Text</td>
<td>1220 x 605mm / 605 x 605mm / 405 x 300mm</td>
<td>1.5mm &amp; 3.0mm</td>
</tr>
<tr>
<td>Green with White Text</td>
<td>1220 x 605mm / 605 x 605mm / 405 x 300mm</td>
<td>1.5mm &amp; 3.0mm</td>
</tr>
<tr>
<td>Blue with White Text</td>
<td>1220 x 605mm / 605 x 605mm / 405 x 300mm</td>
<td>1.5mm &amp; 3.0mm</td>
</tr>
<tr>
<td>Yellow with Black Text</td>
<td>1220 x 605mm / 605 x 605mm / 405 x 300mm</td>
<td>1.5mm &amp; 3.0mm</td>
</tr>
</tbody>
</table>

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.

DOT Ball Chain & Connectors

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-MSEC500</td>
<td>Mild Steel Ball Chain</td>
<td>500m reel</td>
</tr>
<tr>
<td>DOT-SSC1000</td>
<td>Stainless Steel Connectors</td>
<td>1,000 per bag</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Flat work engraving area</th>
<th>265 x 205mm (10.4” x 8”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z axis travel</td>
<td>65mm (2.5”)</td>
</tr>
<tr>
<td>Z axis clearance</td>
<td>30mm (2”) top of beam / 50mm (2”) top of jaws</td>
</tr>
<tr>
<td>Spindle motor speed</td>
<td>14,000 rpm</td>
</tr>
<tr>
<td>Power of spindle motor</td>
<td>42w brushless hall effect DC motor</td>
</tr>
<tr>
<td>Interface to PC</td>
<td>USB</td>
</tr>
<tr>
<td>Construction</td>
<td>Stainless steel spindle, lead screws (Teflon coated) and linear rails mounted on a steel chassis</td>
</tr>
<tr>
<td>Dimensions</td>
<td>460 x 390 x 250mm (18” x 13.35” x 11.4”) with integrated controller, weight 24kg / 52lbs</td>
</tr>
<tr>
<td>Power requirements</td>
<td>110 - 240V AC 3.5 amp</td>
</tr>
<tr>
<td>Acoustic noise level</td>
<td>No-load operation: 75dB (A) or less</td>
</tr>
<tr>
<td></td>
<td>Standby: 45dB (A) or less (according to ISO 7779)</td>
</tr>
<tr>
<td>Operating environment</td>
<td>Temperature: 5 to 30°C (41 to 100°F)</td>
</tr>
<tr>
<td></td>
<td>Humidity: 35 to 80% (no condensation)</td>
</tr>
<tr>
<td>Supplied accessories</td>
<td>Power cable, USB cable, 120” diamond cutter, 0.3mm carbide cutter, cutter knob, variator nose cone, light touch, engraving software and Quick Start Guide</td>
</tr>
<tr>
<td>Minimum PC requirements</td>
<td>Dedicated 2GHz dual core PC running Windows XP (service pack 2), Windows Vista, 7 or 8, 1Gb RAM, 10Gb free hard disk space</td>
</tr>
</tbody>
</table>

DOT-REL-S1 Rigid Engraving Laminate Saw

The DOT-REL-S1 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 (aluminum & brass), wood, rubber, felt and cardboard, but is not for use on steel, materials containing steel or magnetic materials.

The DOT-REL-S1 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 | 110v 60Hz / 220v 50Hz / 350w / 15,000rpm |
| Maximum Cutting Length | 24 3/8” or 620mm |
| Maximum Material Thickness | 1/4” or 6mm |
| Maximum Light and Non-ferrous Metal Thickness | 157” (532”) or 4mm |
| Maximum Stop Guide Cut Length | 81/8” or 215mm |
| Maximum Primary Top Scale Measurement | 13/4” |
| Saw Blade | 36 Tooth Carbide Tipped (4.72” x .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:** For continuous use: Range: -40°C to +85°C  
**Colours:** Black and Natural  
**Pack Sizes:** 1,000 MOQ – bagged in 100’s

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Bundle Diameter (mm)</th>
<th>Tensile Strength (kg)</th>
<th>Tensile Strength (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-NCT-10025-*</td>
<td>100</td>
<td>2.5</td>
<td>22</td>
<td>8.1</td>
<td>18</td>
</tr>
<tr>
<td>DOT-NCT-14036-*</td>
<td>140</td>
<td>3.6</td>
<td>33</td>
<td>18.2</td>
<td>40</td>
</tr>
<tr>
<td>DOT-NCT-16025-*</td>
<td>160</td>
<td>4.0</td>
<td>40</td>
<td>8.1</td>
<td>18</td>
</tr>
<tr>
<td>DOT-NCT-16048-*</td>
<td>160</td>
<td>4.8</td>
<td>40</td>
<td>22.2</td>
<td>50</td>
</tr>
<tr>
<td>DOT-NCT-20025-*</td>
<td>200</td>
<td>2.5</td>
<td>53</td>
<td>8.1</td>
<td>18</td>
</tr>
<tr>
<td>DOT-NCT-20036-*</td>
<td>200</td>
<td>3.6</td>
<td>53</td>
<td>18.2</td>
<td>40</td>
</tr>
<tr>
<td>DOT-NCT-20048-*</td>
<td>200</td>
<td>4.8</td>
<td>53</td>
<td>22.2</td>
<td>50</td>
</tr>
<tr>
<td>DOT-NCT-20076-*</td>
<td>200</td>
<td>7.6</td>
<td>53</td>
<td>54.4</td>
<td>120</td>
</tr>
<tr>
<td>DOT-NCT-25048-*</td>
<td>250</td>
<td>4.8</td>
<td>64</td>
<td>22.2</td>
<td>50</td>
</tr>
<tr>
<td>DOT-NCT-280127-*</td>
<td>280</td>
<td>12.7</td>
<td>71</td>
<td>114</td>
<td>250</td>
</tr>
<tr>
<td>DOT-NCT-30036-*</td>
<td>300</td>
<td>3.6</td>
<td>76</td>
<td>18.2</td>
<td>40</td>
</tr>
<tr>
<td>DOT-NCT-30048-*</td>
<td>300</td>
<td>4.8</td>
<td>76</td>
<td>54.4</td>
<td>120</td>
</tr>
<tr>
<td>DOT-NCT-30076-*</td>
<td>300</td>
<td>7.6</td>
<td>102</td>
<td>54.4</td>
<td>120</td>
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<tr>
<td>DOT-NCT-43048-*</td>
<td>430</td>
<td>4.8</td>
<td>110</td>
<td>22.2</td>
<td>50</td>
</tr>
<tr>
<td>DOT-NCT-43090-*</td>
<td>430</td>
<td>9.0</td>
<td>110</td>
<td>79.4</td>
<td>175</td>
</tr>
<tr>
<td>DOT-NCT-45076-*</td>
<td>450</td>
<td>7.6</td>
<td>116</td>
<td>54.4</td>
<td>120</td>
</tr>
<tr>
<td>DOT-NCT-50076-*</td>
<td>500</td>
<td>7.6</td>
<td>140</td>
<td>79.4</td>
<td>175</td>
</tr>
<tr>
<td>DOT-NCT-54076-*</td>
<td>540</td>
<td>7.6</td>
<td>142</td>
<td>54.4</td>
<td>120</td>
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<tr>
<td>DOT-NCT-580127-*</td>
<td>580</td>
<td>12.7</td>
<td>152</td>
<td>114</td>
<td>250</td>
</tr>
<tr>
<td>DOT-NCT-71090-*</td>
<td>710</td>
<td>9.0</td>
<td>190</td>
<td>79.4</td>
<td>175</td>
</tr>
<tr>
<td>DOT-NCT-78090-*</td>
<td>780</td>
<td>9.0</td>
<td>208</td>
<td>79.4</td>
<td>175</td>
</tr>
<tr>
<td>DOT-NCT-102090-*</td>
<td>1020</td>
<td>9.0</td>
<td>295</td>
<td>79.4</td>
<td>175</td>
</tr>
<tr>
<td>DOT-NCT-1030127-*</td>
<td>1030</td>
<td>12.7</td>
<td>295</td>
<td>114</td>
<td>250</td>
</tr>
</tbody>
</table>

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

---

**DOT-MTNCT Metal Tooth Nylon Cable Ties**

**Material:** Nylon 66  
**Flame Rating:** Self-extinguishing to UL94 / V2  
**Temperature Range:** For continuous use -40°C to +85°C  
**UV Resistance:** Black ties are UV resistant

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Max Bundle Diameter mm</th>
<th>Tensile Strength Kg / Lbs</th>
<th>MOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-MTNCT-20347-*</td>
<td>203</td>
<td>4.7</td>
<td>51</td>
<td>22.2 / 50</td>
<td>10,000</td>
</tr>
<tr>
<td>DOT-MTNCT-30070-*</td>
<td>300</td>
<td>7.0</td>
<td>77</td>
<td>53.4 / 120</td>
<td>10,000</td>
</tr>
<tr>
<td>DOT-MTNCT-30547-*</td>
<td>305</td>
<td>4.7</td>
<td>77</td>
<td>22.2 / 50</td>
<td>10,000</td>
</tr>
<tr>
<td>DOT-MTNCT-37870-*</td>
<td>378</td>
<td>7.0</td>
<td>102</td>
<td>53.4 / 120</td>
<td>10,000</td>
</tr>
</tbody>
</table>

* denotes colour choice.  B = Black and N = Natural. Other sizes and colours available on request.

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**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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length mm</th>
<th>Width mm</th>
<th>Bundle Diameter mm</th>
<th>Tensile Strength Kg / Lbs</th>
<th>MOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-NCT-10025-*</td>
<td>100</td>
<td>2.5</td>
<td>22</td>
<td>8.1 / 148</td>
<td>1,000</td>
</tr>
<tr>
<td>DOT-NCT-14036-*</td>
<td>140</td>
<td>3.6</td>
<td>33</td>
<td>18.2 / 40</td>
<td>1,000</td>
</tr>
<tr>
<td>DOT-NCT-20048-*</td>
<td>200</td>
<td>4.8</td>
<td>53</td>
<td>22.2 / 50</td>
<td>1,000</td>
</tr>
<tr>
<td>DOT-NCT-30048-*</td>
<td>300</td>
<td>4.8</td>
<td>76</td>
<td>22.2 / 50</td>
<td>1,000</td>
</tr>
</tbody>
</table>

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

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Tel: +44 (0)1582 703 703  Fax: +44 (0)1582 703 700
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)

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 certifications for the IEC 61914 and prEN 50368 Short Circuit Tests “Cable Cleats for Electrical Installations”. Technical Data Sheets and Short Circuit Test Data available on request.

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length (min)</th>
<th>Length (max)</th>
<th>Width</th>
<th>MOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-CSCS201-*</td>
<td>Cable Strap Cushion Sleeve PVC</td>
<td>17mm or 20mm x 30.5m/100ft</td>
<td>10 rolls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOT-CSCS202-*</td>
<td>Cable Strap Cushion Sleeve TPE</td>
<td>17mm or 20mm x 30.5m/100ft</td>
<td>10 rolls</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* denotes Width of Cable Strap Cushion Sleeve required. Please add 17 for 17mm and 20 for 20mm.
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 Levels** - 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.

Tel: +44 (0)1582 703 703  Fax: +44 (0)1582 703 700
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)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Pack Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-POK*</td>
<td>Single Character Marker</td>
<td>500 piece disc</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Packaging</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-POH 7</td>
<td>7 digit carrier strip</td>
<td>100 pieces</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>DOT-POH 12</td>
<td>12 digit carrier strip</td>
<td>100 pieces</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>DOT-POH 18</td>
<td>18 digit carrier strip</td>
<td>100 pieces</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>DOT-POH 30</td>
<td>30 digit carrier strip</td>
<td>100 pieces</td>
<td>Rigid PVC</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Packaging</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-PKH 70</td>
<td>10 digit carrier strip</td>
<td>100 pieces</td>
<td>Rigid PVC</td>
</tr>
<tr>
<td>DOT-PKH 110</td>
<td>20 digit carrier strip</td>
<td>100 pieces</td>
<td>Nylon 6.6</td>
</tr>
</tbody>
</table>
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

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

<table>
<thead>
<tr>
<th>Profile</th>
<th>Part No.</th>
<th>Size Range</th>
<th>Length (mm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PA 02</td>
<td>Ø 1.7 - 2.8mm 3.5 - 0.75mm²</td>
<td>3mm</td>
<td>1000 piece reel 250 piece handy pack 500 piece disc 1000 loose strip pack (5 x 200)</td>
</tr>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PA 1</td>
<td>Ø 2.5 - 5.0mm 0.75 - 4.0mm²</td>
<td>3mm</td>
<td>1000 piece reel 250 piece handy pack 500 piece disc 1000 loose strip pack (5 x 200)</td>
</tr>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PA 2</td>
<td>Ø 4.0 - 10mm 2.5 - 16mm²</td>
<td>4mm</td>
<td>250 piece disc 500 loose strip pack (5 x 100)</td>
</tr>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PA 3</td>
<td>Ø 8.0 - 16mm 16 - 70mm²</td>
<td>8mm</td>
<td>100 loose strip pack (5 x 20)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Profile</th>
<th>Part No.</th>
<th>Size Range</th>
<th>Length (mm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PZ 02</td>
<td>Ø 1.7 - 2.8mm 0.5 - 3.75mm²</td>
<td>3mm</td>
<td>1000 piece reel 1000 loose piece strip pack (5 x 200) 1000 piece in plastic box (5 x 200)</td>
</tr>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PZ 1</td>
<td>Ø 2.5 - 5.0mm 0.75 - 4.0mm²</td>
<td>3mm</td>
<td>1000 piece reel 1000 loose piece strip pack (5 x 200) 1000 piece in plastic box (5 x 200)</td>
</tr>
<tr>
<td><img src="image" alt="Profile" /></td>
<td>DOT-PZ 2</td>
<td>Ø 4.0 - 10mm 2.5 - 16mm²</td>
<td>4mm</td>
<td>500 loose piece strip pack (5 x 100) 250 piece disc 500 loose in plastic box (5 x 100)</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-PC 10</td>
<td>Ø 2.4mm - 3.0mm 0.5mm²</td>
<td>1000 piece strip pack</td>
</tr>
<tr>
<td>DOT-PC 20</td>
<td>Ø 3.0mm - 4.0mm 0.75, 1.0 and 1.5mm²</td>
<td>1000 piece strip pack</td>
</tr>
<tr>
<td>DOT-PC 30</td>
<td>Ø 4.0mm - 5.0mm 2.5 and 4mm²</td>
<td>1000 piece strip pack</td>
</tr>
<tr>
<td>DOT-PC 40</td>
<td>Ø 5.0mm - 6.2mm 6mm²</td>
<td>1000 piece strip pack</td>
</tr>
</tbody>
</table>

DOT Manual Marker Applicators  

**Teflon Coated Stainless Steel Applicators**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Colour</th>
<th>Recommended For</th>
<th>For Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-PUJ 3T</td>
<td>Red</td>
<td>Ø 1.5 - 2.5mm 0.5mm²</td>
<td>DOT-PA02 &amp; DOT-PZ02</td>
</tr>
<tr>
<td>DOT-PUJ 4T</td>
<td>Dark Blue</td>
<td>Ø 2.5 - 3.5mm 0.75, 1.0, 1.5mm²</td>
<td>DOT-PA02, DOT-PZ02, DOT-PA1 &amp; DOT-PZ1</td>
</tr>
<tr>
<td>DOT-PUJ 5T</td>
<td>Light Blue</td>
<td>Ø 3.5 - 4.4mm 2.5, 4.0mm²</td>
<td>DOT-PA1 &amp; DOT-PZ1</td>
</tr>
</tbody>
</table>

**Nylon Applicator**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Recommended For</th>
<th>For Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-MD 10</td>
<td>Ø 2.5 - 4.4mm 0.75, 1.0, 1.5, 2.5, 4.0mm²</td>
<td>DOT-PA1 &amp; DOT-PZ1</td>
</tr>
</tbody>
</table>
Fire, Safety, Hazardous Area & General Warning Signs

Fire Fighting Equipment

Emergency Escape

Fire Doors / Action

Braille & Tactile

Photoluminescent

General Warning

Tel: +44 (0)1582 703 703    Fax: +44 (0)1582 703 700
First Aid

Multi Purpose

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lengths</th>
<th>External Ø</th>
<th>Cross Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-SFC0</td>
<td>12, 21 &amp; 30mm</td>
<td>1.5 – 2.5mm</td>
<td>0.5 – 1.0mm²</td>
</tr>
<tr>
<td>DOT-SFC1</td>
<td>12, 21 &amp; 30mm</td>
<td>2.0 – 3.5mm</td>
<td>0.75 – 2.5mm²</td>
</tr>
<tr>
<td>DOT-SFC2</td>
<td>12, 21 &amp; 30mm</td>
<td>2.5 – 5.0mm</td>
<td>2.5 – 4.0mm²</td>
</tr>
<tr>
<td>DOT-SFC3</td>
<td>12, 21 &amp; 30mm</td>
<td>3.5 – 7.0mm</td>
<td>4.0 – 10.0mm²</td>
</tr>
</tbody>
</table>

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 an automatic DOT-SFC Slim Fix Clip feed via integrated loader
DOTlabel Software

DOTlabel Software helps make child’s play of printing labels and offers users the functions to produce markers quickly and efficiently. It is the software solution for the printing of any type of label from the DOTgroup Cable Marker, Core Idents and Valve / Dog Tag range.

DOTlabel Software enables users to paste complete projects direct from an Excel spreadsheet into the Line / Copies columns with one click, then paste complete projects from the Line / Copies columns into the pre-installed label templates with one click. Other functions include the ability to enter data straight into DOTlabel Software, a built in 2D Data Matrix, QR and Barcodes 39 & 128 Code Generator and an automatic numbering function, which allows the easy production of labels with consecutive numbers or repetitive sequences.

DOTlabel Software features & benefits

• Pre-installed templates for entire range of DOTgroup Cable Markers, Core Idents & Valve / Dog Tags
• Paste complete projects direct from an Excel spreadsheet into Line / Copies columns with one click
• Paste complete projects from Line / Copies columns into label templates with one click
• Built in 2D Data Matrix, QR and Barcodes 39 & 128 Code Generator function
• Quantities generator – simply add number of labels required for each individual label in Copies column
• Manually type individual labels straight into Line columns in DOTlabel Software
• Ability to save bespoke label templates
• Page-by-Page preview prior to printing
• Simple formatting of font & text size
• Print individual pages or complete project
• 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, 8 and 10 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

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
- Gas: Yellow background with black lettering
- Fibre Optic: Green background with black lettering
- Water: Blue background with black lettering

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.

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

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.
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-CCPC-A</td>
<td>914mm</td>
<td>150mm</td>
<td>50mm</td>
<td>16kg</td>
</tr>
<tr>
<td>DOT-CCPC-B</td>
<td>914mm</td>
<td>230mm</td>
<td>50mm</td>
<td>24kg</td>
</tr>
<tr>
<td>DOT-CCPC-C</td>
<td>914mm</td>
<td>305mm</td>
<td>50mm</td>
<td>32kg</td>
</tr>
<tr>
<td>DOT-CCPC-D</td>
<td>610mm</td>
<td>305mm</td>
<td>50mm</td>
<td>22kg</td>
</tr>
<tr>
<td>DOT-CCPC-E</td>
<td>305mm</td>
<td>305mm</td>
<td>50mm</td>
<td>11kg</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Narrative</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-CG1</td>
<td>770mm</td>
<td>160mm</td>
<td>75mm</td>
<td>24kg</td>
<td>Electric Cables</td>
</tr>
<tr>
<td>DOT-CG1A</td>
<td>770mm</td>
<td>160mm</td>
<td>75mm</td>
<td>24kg</td>
<td>Fibre Optic Cables</td>
</tr>
</tbody>
</table>

- 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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Narrative</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-CG305A</td>
<td>990mm</td>
<td>245mm</td>
<td>75mm</td>
<td>21kg</td>
<td>Blank for plate</td>
</tr>
<tr>
<td>DOT-CG305B</td>
<td>1220mm</td>
<td>245mm</td>
<td>75mm</td>
<td>26kg</td>
<td>Blank for plate</td>
</tr>
<tr>
<td>DOT-CG305C</td>
<td>1370mm</td>
<td>245mm</td>
<td>75mm</td>
<td>33kg</td>
<td>Blank for plate</td>
</tr>
<tr>
<td>DOT-CG305D</td>
<td>1525mm</td>
<td>245mm</td>
<td>75mm</td>
<td>40kg</td>
<td>Blank for plate</td>
</tr>
</tbody>
</table>

- 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 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 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

<table>
<thead>
<tr>
<th>FRENCH TYPE</th>
<th>GERMAN TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>Colour</td>
</tr>
<tr>
<td>DOT-CEF025F</td>
<td>Violet</td>
</tr>
<tr>
<td>DOT-CEF034F</td>
<td>Pink</td>
</tr>
<tr>
<td>DOT-CEF508F</td>
<td>White</td>
</tr>
<tr>
<td>DOT-CEF7508F</td>
<td>Blue</td>
</tr>
<tr>
<td>DOT-CEF108F</td>
<td>Red</td>
</tr>
<tr>
<td>DOT-CEF1508F</td>
<td>Black</td>
</tr>
<tr>
<td>DOT-CEF2508F</td>
<td>Grey</td>
</tr>
<tr>
<td>DOT-CEF409F</td>
<td>Orange</td>
</tr>
<tr>
<td>DOT-CEF612F</td>
<td>Green</td>
</tr>
<tr>
<td>DOT-CEF1012F</td>
<td>Brown</td>
</tr>
<tr>
<td>DOT-CEF1612F</td>
<td>Ivory</td>
</tr>
<tr>
<td>DOT-CEF25016F</td>
<td>Black</td>
</tr>
<tr>
<td>DOT-CEF35016F</td>
<td>Red</td>
</tr>
</tbody>
</table>

### Twin Cord End Ferrules

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Conductor Size mm²</th>
<th>Barrel Length mm</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-TCEF508</td>
<td>0.5</td>
<td>8</td>
<td>White</td>
</tr>
<tr>
<td>DOT-TCEF7508</td>
<td>0.75</td>
<td>8</td>
<td>Grey</td>
</tr>
<tr>
<td>DOT-TCEF7510</td>
<td>0.75</td>
<td>10</td>
<td>Grey</td>
</tr>
<tr>
<td>DOT-TCEF108</td>
<td>1.0</td>
<td>8</td>
<td>Red</td>
</tr>
<tr>
<td>DOT-TCEF110</td>
<td>1.0</td>
<td>10</td>
<td>Red</td>
</tr>
<tr>
<td>DOT-TCEF1508</td>
<td>1.5</td>
<td>8</td>
<td>Black</td>
</tr>
<tr>
<td>DOT-TCEF1512</td>
<td>1.5</td>
<td>12</td>
<td>Black</td>
</tr>
<tr>
<td>DOT-TCEF2510</td>
<td>2.5</td>
<td>10</td>
<td>Blue</td>
</tr>
<tr>
<td>DOT-TCEF2513</td>
<td>2.5</td>
<td>13</td>
<td>Blue</td>
</tr>
<tr>
<td>DOT-TCEF412</td>
<td>4.0</td>
<td>12</td>
<td>Grey</td>
</tr>
<tr>
<td>DOT-TCEF614</td>
<td>6.0</td>
<td>14</td>
<td>Yellow</td>
</tr>
<tr>
<td>DOT-TCEF1014</td>
<td>10.0</td>
<td>14</td>
<td>Red</td>
</tr>
<tr>
<td>DOT-TCEF1614</td>
<td>16.0</td>
<td>14</td>
<td>Blue</td>
</tr>
</tbody>
</table>

### Long Cord End Ferrules

<table>
<thead>
<tr>
<th>FRENCH TYPE</th>
<th>GERMAN TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>Colour</td>
</tr>
<tr>
<td>DOT-CEF7512F</td>
<td>Blue</td>
</tr>
<tr>
<td>DOT-CEF112F</td>
<td>Red</td>
</tr>
<tr>
<td>DOT-CEF1518F</td>
<td>Black</td>
</tr>
<tr>
<td>DOT-CEF2518F</td>
<td>Grey</td>
</tr>
<tr>
<td>DOT-CEF418F</td>
<td>Orange</td>
</tr>
<tr>
<td>DOT-CEF618F</td>
<td>Green</td>
</tr>
<tr>
<td>DOT-CEF1018F</td>
<td>Brown</td>
</tr>
<tr>
<td>DOT-CEF1618F</td>
<td>Ivory</td>
</tr>
<tr>
<td>DOT-CEF25025F</td>
<td>Black</td>
</tr>
<tr>
<td>DOT-CEF35025F</td>
<td>Red</td>
</tr>
</tbody>
</table>

### Un-Insulated Cord End Ferrules

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Conductor Size mm²</th>
<th>Length mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT-UCEF510</td>
<td>0.5</td>
<td>10</td>
</tr>
<tr>
<td>DOT-UCEF7508</td>
<td>0.75</td>
<td>10</td>
</tr>
<tr>
<td>DOT-UCEF110</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td>DOT-UCEF1510</td>
<td>1.5</td>
<td>10</td>
</tr>
<tr>
<td>DOT-UCEF2512</td>
<td>2.5</td>
<td>12</td>
</tr>
<tr>
<td>DOT-UCEF412</td>
<td>4.0</td>
<td>12</td>
</tr>
<tr>
<td>DOT-UCEF618</td>
<td>6.0</td>
<td>18</td>
</tr>
<tr>
<td>DOT-UCEF1018</td>
<td>10.0</td>
<td>18</td>
</tr>
<tr>
<td>DOT-UCEF1618</td>
<td>16.0</td>
<td>18</td>
</tr>
<tr>
<td>DOT-UCEF25018</td>
<td>25.0</td>
<td>18</td>
</tr>
<tr>
<td>DOT-UCEF35018</td>
<td>35.0</td>
<td>18</td>
</tr>
</tbody>
</table>

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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