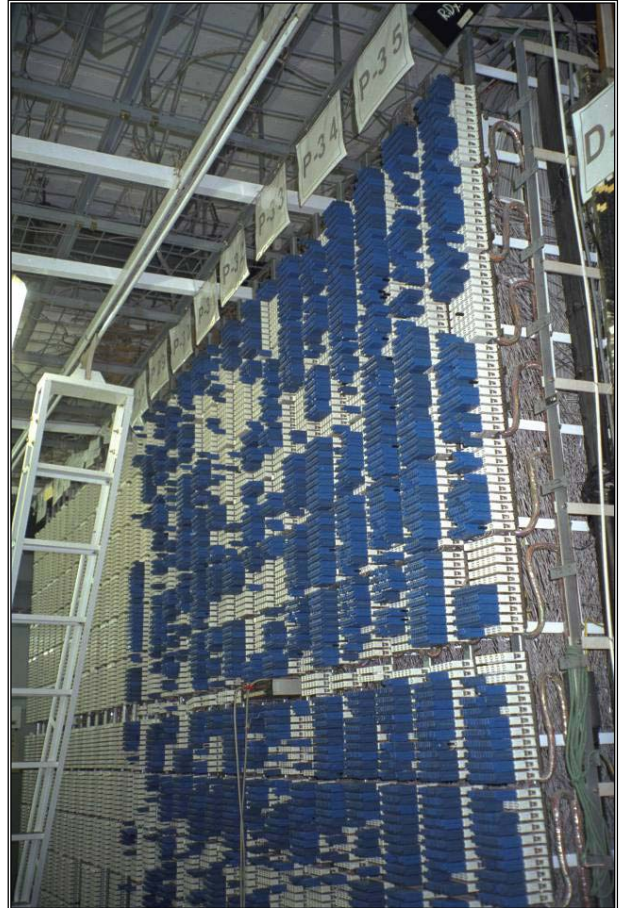




**QDF
QUICK-CONNECT
DISTRIBUTION FRAME
WIRE MANAGEMENT
SYSTEM**



*This document provides assistance with the selection of elements of the QDF wire management system.
It includes the following sections:*

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Please consult your local Raychem sales engineer for applications not included in this document.



1. INTRODUCTION

- The QDF family of **termination magazines** provides a reliable, quick and easy-to-use system for wire management in main distribution frames in exchanges, cross-connect cabinets in outside plant and buildings entrance terminals.
 - ◆ **Connections** are made using a unique split cylinder insulation displacement contact to provide a highly reliable connection designed to meet stringent PTT and military electrical and mechanical requirements in a broad range of environmental conditions.



- ◆ **Terminations** are made by simply laying the wire over the contact and punching it into the split cylinder using a manual or impact installation tool.
 - ◆ The **wire is cut** by the contact surface of the cylinder, not the tool, avoiding the problem of tool blunting which can occur with other systems.
 - ◆ During **wire removal**, each wire pulls out cleanly, leaving no wire residue in the contact.
 - ◆ Magazines are **mounted** on a range of different mounting frames chosen to suit the particular application.
- Two types of termination magazine are available:
 - ◆ The **QDF-E** (E for earthed) **termination magazine** is a 10-pair protection/connection block featuring an integrated earth connection. It is front administered and requires no stripping, wrapping or soldering of wires. The design incorporates a built-in **break access** to allow testing in both directions without wire removal. A range of test leads is available to take advantage of this feature, allowing **make break** monitoring or open circuit testing. **Protection** options include 3-point and more sophisticated 5-point plug in modules. Protection is added on a **pair-by-pair** basis. Over-voltage protection utilises either GDT (gas-discharge tube) or solid state devices, and over-current protection uses PTCRs (positive temperature coefficient resistors).
 - ◆ The **QDF-M termination magazine** is an 8-pair version which is more compact than the other magazine types. It is used in the equipment side of an MDF. It is **not earthed**, so protection is not supported. Also available are: a cover and wire guide, mounting frames and a cabinet block.

2. MAGAZINES

2.1. QDF-E (EARTHED) TERMINATION MAGAZINES

	AMPICS	PCN	colour	UoM	Qty
QDF-E1	7-1190044-6	005860-000	white	pc	1

10-pair termination magazine marked 1-0.
Material: polyester.



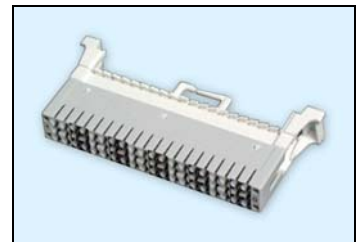
	AMPICS	PCN	colour	UoM	Qty
QDF-E1P	3-1195504-2	701381-000	white	pc	1

10-pair termination magazine marked 1-0.
Material: base polyester, top polycarbonate.



	AMPICS	PCN	colour	UoM	Qty
QDF-E1P-G	2-1193296-1	438580-000	grey	pc	1

10-pair termination magazine marked 1-0.
Material: base polyester, top polycarbonate.

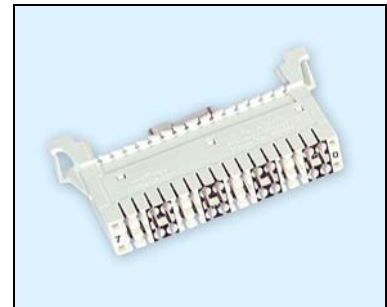


(These are often used as the first in a group of 10 magazines for marking the beginning of a 100-pair block).

2.2. QDF-M TERMINATION MAGAZINES

	AMPICS	PCN	colour	UoM	Qty
QDF-M0	8-1192840-2	379809-000	white	pc	1

8-pair termination magazine marked 0-7.
Material: polyester.



	AMPICS	PCN	colour	UoM	Qty
QDF-M0-G	5-1190884-5	121505-000	grey	pc	1

8-pair termination magazine marked 0-7.
Material: polyester.



3. BLOCKS

3.1. QDF-E BLOCKS

	AMPICS	PCN	UoM	Qty
QDF-100-OSP	0-1190597-8	080450-000	pc	1

This is a block kit for mounting on a frame, which is not included.
Supplied are:

- one 10-pair grey magazine,
- nine 10-pair white magazines,
- 10 white designation wings (par.X)
- 1 grey designation wing (grupo)
- 10 right wire guides
- strip of number labels for designation wings

Material: magazines - polyester/polycarbonate.



	AMPICS	PCN	UoM	Qty
QDF-100-CB	0-1193678-8	491766-000	pc	1

100-pair QDF-E cabinet block.

This is made up of:

- ten 10-pair magazines
- a 10-position mounting frame with 40 mm storage space
- 4 mounting screws and washers
- one designation cover
- two cover labels (1 pink, 1 blue)
- one tie-wrap

Materials: polyester/polycarbonate magazines, stainless steel mounting frames.



3.2. QDF-M BLOCKS

	AMPICS	PCN	UoM	Qty
QDF-M-128COB	5-1194053-0	516169-000	pc	1

This is a 128-pair QDF-M cabinet block.

It consists of:

- 1 grey 8-pair magazine
- 15 white 8-pair magazines
- 4 mounting screws and washers
- 4 plastic hooks
- 1 grey designation cover
- 15 white designation covers
- 16 white designation cover lables
- 16 right wire guides
- 16-position mounting frame with 30 mm storage space



4. ACCESSORIES

Not all accessories are suitable for use with all types of magazine. Information on which accessories can be used with which magazines is given for each product described.

4.1. PLUGS AND MARKERS

	AMPICS	PCN	colour	UoM	Qty
QDF-1BBL	7-1191224-1	168195-000	black	pc	1
QDF-1BR	7-1194768-4	602442-000	red	pc	1

Break plug.
For use with: QDF-E & QDF-M.



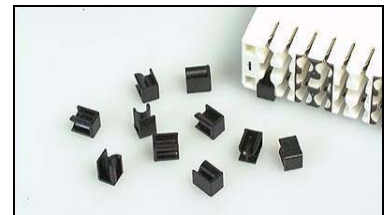
	AMPICS	PCN	colour	UoM	Qty
QDF-DB	8-1191107-7	153332-000	black	pc	1
QDF-DR	3-1194252-5	542334-000	red	pc	1

Dummy plug.
For use with: QDF-E & QDF-M.



	AMPICS	PCN	colour	UoM	Qty
QDF-MB	8-1190211-9	027378-000	black	pc	1
QDF-MG	5-1197029-8	904574-000	green	pc	1
QDF-MR	7-1194792-0	605752-000	red	pc	1

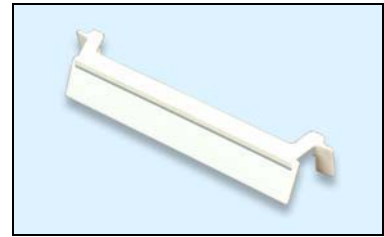
Marker plugs.
For use with: QDF-E & QDF-M.



4.2. DESIGNATION ACCESSORIES

	AMPICS	PCN	colour	UoM	Qty
QDF-ED	2-1197314-2	944976-000	white	pc	1
QDF-EDG	3-1191182-1	163823-000	grey	pc	1

Designation cover for QDF-E magazine.
Material: polycarbonate.



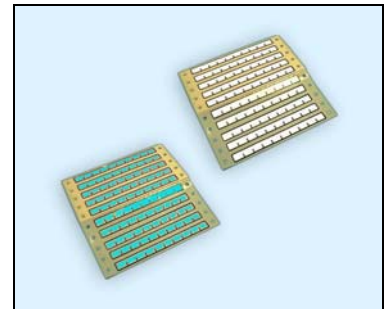
	AMPICS	PCN	colour	UoM	Qty
QDF-MD	1-1192645-5	351803-000	white	pc	1
QDF-MD-G	6-1190435-7	057319-000	grey	pc	1

Designation cover for QDF-M magazine.
Material: polycarbonate.



	AMPICS	PCN	colour	UoM	Qty
QDF-DLB	9-1195218-9	662104-000	blue	pc	1
QDF-DLW	9-1195673-6	725972-000	white	pc	1
QDF-DLY	8-1194612-6	582272-000	yellow	pc	1
QDF-DLV	1-1197606-9	984558-000	violet	pc	1
QDF-DLR	5-1190366-4	047710-000	red	pc	1

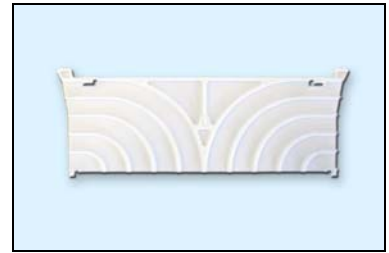
Designation cover labels for QDF-E.
Supplied on one continuous length of backing paper.



4.3. WIRE GUIDES

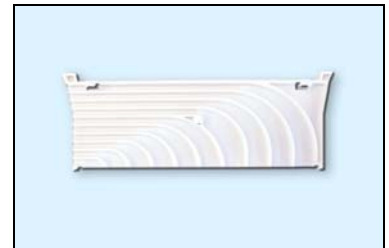
	AMPICS	PCN	colour	UoM	Qty
QDF-DWGW	1-1197278-6	939872-000	white	pc	1

Dual wire guide for QDF-E magazine.



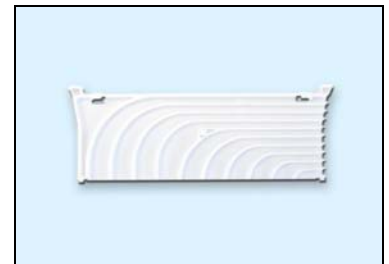
	AMP Code	PCN	colour	UoM	Qty
QDF-LWGW	2-1193633-8	485501-000	white	pc	1

Left wire guide for QDF-E magazine.



	AMP Code	PCN	colour	UoM	Qty
QDF-RWGW	7-1193630-5	485124-000	white	pc	1

Right wire guide for QDF-E magazine.



	AMP Code	PCN	colour	UoM	Qty
QDF-MRWGW	8-1194621-0	583541-000	white	pc	1

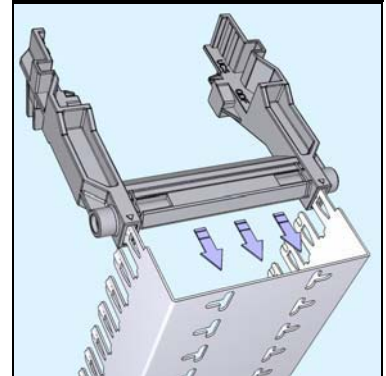
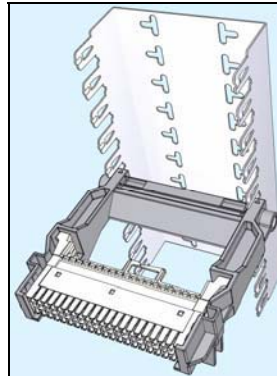
Right wire guide for QDF-M magazine.



4.4. MDF AND CABINET ACCESSORIES

Description	Tyco code	PCN	UoM	Qty
MDG-AC-MEB	0-1731633-1	CC1210-000	pc	1

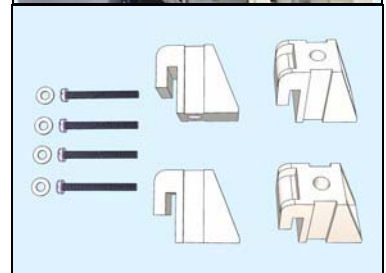
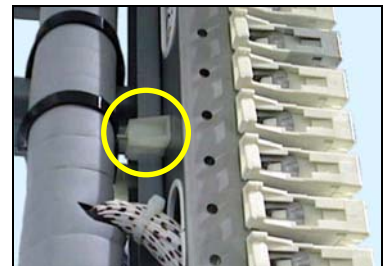
Extension Bracket. This is, specially recommended, for replacement of already installed magazines nevertheless also can be used in new installation.



	AMPICS	PCN	UoM	Qty
MDG-MDF-MK	2-1200759-5	C22896-000	pc	1

MDF mounting frame kit. This is used for mounting frames on bars. Each piece consists of:

- 4 mounting screws and washers
- 4 plastic hooks



4.5. PROTECTION (QDF-E ONLY)

	AMP Code	PCN	colour	UoM	Qty
QDF-3CGS-230	1-1192450-9	323726-000	grey	pc	1
QDF-3CGS-260	4-1195268-3	669104-000	grey	pc	1

3-point overvoltage protection, 230 V or 260 V gas discharge tube.
Packed in boxes of 100.



	AMP Code	PCN	colour	UoM	Qty
QDF-PR-5SS-220-RS	1-1196188-7	800290-000	blue	pc	1

5-point, overvoltage + overcurrent, small protector, solid-state.
Packed in boxes of 100.

Minimum ordering quantity = 100 pcs or multiple.



	AMP Code	PCN	colour	UoM	Qty
QDF-PR-5GT-230-RS	7-1198253-8	906432-000	grey	pc	1
QDF-PR-5GT-260-RS	6-1192362-9	312272-000	grey	pc	1

5-point, overvoltage + overcurrent, small protector, 230 V or 260 V gas tube.
Packed in boxes of 100.



	AMP Code	PCN	colour	UoM	Qty
QDF-PMB	2-1190165-3	021240-000	black	pc	1
QDF-PMR	0-1194520-5	570212-000	red	pc	1

Marker for protectors.



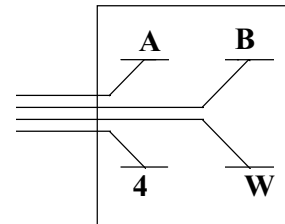
4.5.1. 4-WIRE TEST/PATCH CORDS

These cords are for use with QDF-E & QDF-M magazines.



QDF-4A1-X ¹				
x = metres	AMP Code	PCN	UoM	Qty
x = 2	4-1197592-7	982654-000	pc	1
x = 5	6-1196598-6	845916-000	pc	1

Test plug - 1 open end
Colour: plug - black, wire - grey.



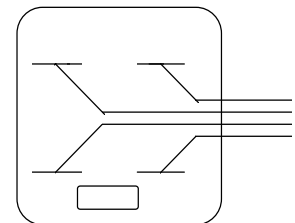
4.5.2. 4-WIRE RETRACTABLE CORDS

These cords are for use with QDF-E & QDF-M magazines.



QDF-4RT1-X				
x = metres	AMP Code	PCN	UoM	Qty
x = 2	6-1190680-5	092764-000	pc	1
x = 4	4-1195173-2	655878-000	pc	1

Retractable test plug: 1 open end.
Colour: plug black, wire grey.



¹ This is a very versatile plug which allows for all types of testing (except through protectors). It is therefore a good choice for multi-purpose applications.

5. TOOLS

	AMP Code	PCN	UoM	Qty
QDF-AC-TOOL-888	2-1194636-9	585588-000	pc	1

Impact installation tool. Standard length (as QDF-814).



	AMP Code	PCN	UoM	Qty
QDF-AC-TOOL-888M	9-1195418-3	690070-000	pc	1

Impact installation tool. Medium length version to facilitate working with short protectors.



	AMP Code	PCN	UoM	Qty
QDF-AC-TOOL-888L	6-1192431-7	320762-000	pc	1

Impact installation tool. Long length, version to facilitate working with long protectors and QDF UniSplits.



	AMP Code	PCN	colour	UoM	Qty
QDF-AC-TOOL-DW1	1-1193449-0	459824-000	black	pc	1

Integrated insert tool.

This is a disposable tool designed for occasional use after the main installation work has been completed, for example, to make a few new jumper connections. It can be re-used up to around 40 times.

For installing jumper wires of 0.64 mm in diameter.

Material: Polyarylamide/glass fibre.



6. METALWORK

6.1. STANDARD MOUNTING FRAMES

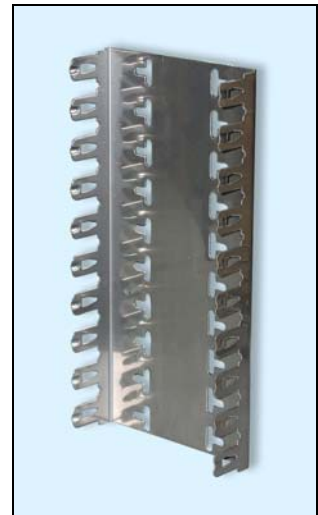
	AMP Code	PCN	UoM	Qty
QDF-11-05A	9-1197221-5	931746-000	pc	1

Mounting frame: 11 mm storage space and 5 positions.
 Material: stainless steel.
 Packed in boxes of 10 pcs.



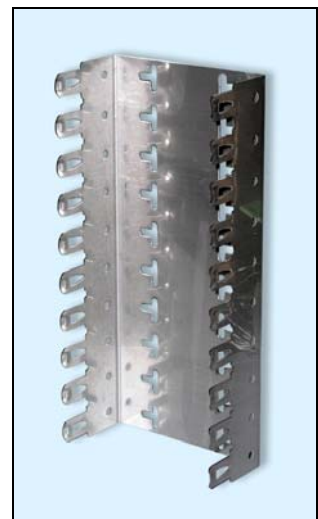
	AMP Code	PCN	UoM	Qty
QDF-11-10A	0-1192961-2	394700-000	pc	1

Mounting frame: 11 mm storage space and 10 positions.
 Material: stainless steel.
 Packed in boxes of 10 pcs.



	AMP Code	PCN	UoM	Qty
QDF-30-10A	1-1197727-9	999504-000	pc	1

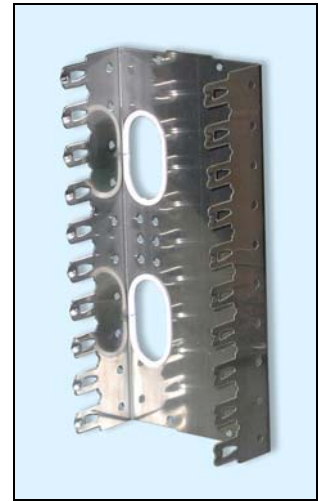
Mounting frame: 30 mm storage space and 10 positions.
 Material: stainless steel.
 Packed in boxes of 10 pcs.



6.2. MDF MOUNTING FRAMES

	AMP Code	PCN	UoM	Qty
QDF-30-10A-MDF	5-1194018-0	511230-000	pc	1

Mounting frame: 30 mm storage space and 10 positions.
 Mounting kit (QDF-MDF-MK) included (4 screws, washers and plastic hooks).
 Material: stainless steel.
 Packed in boxes of 10 pcs.



	AMP Code	PCN	UoM	Qty
QDF-30-62A-MDF	6-1194413-4	559107-000	pc	1

Mounting frame: 30 mm storage space and 62 positions.
 Material: stainless steel.
 Packed in boxes of 4 pcs.



6.3. QDF-M MOUNTING FRAMES

	AMP Code	PCN	UoM	Qty
QDF-30-16A-MDF-M	1-1194214-6	536889-000	pc	1

Mounting frame for QDF-M magazines.
 30 mm storage space, 16 positions.
 Material: stainless steel.



7. DISTRIBUTION POINTS

	AMP Code	PCN	colour	UoM	Qty
QDF-251A	3-1190669-6	157097-000	grey	pc	1

The basic box is supplied containing a 5-position-mounting frame with 11 mm storage space, earth terminal and jumper rings.
Dimensions: 210 x 160 x 90 mm.



	AMP Code	PCN	colour	UoM	Qty
QDF-301A	6-1193097-0	410712-000	grey	pc	1

The box is supplied with a 10-position mounting frame with 30 mm storage space, earth terminal and jumper rings.
Dimensions: 320 x 210 x 120 mm.



	AMP Code	PCN	colour	UoM	Qty
QDF-620A	2-1193598-1	480668-000	grey	pc	1

This is a cross-connect box designed to house up to 20 QDF magazines, (200 pairs).
It is supplied with two 50 mm high mounting frames already installed side-by-side.
Jumper rings are also provided.
Material: Fibre-glass reinforced polyester.
Dimensions: 460 x 340 x 125 mm.



	AMP Code	PCN	colour	UoM	Qty
QDF-640A	5-1194159-6	529664-000	grey	pc	1

This is a cross-connect box designed to house up to 40 QDF magazines, (400 pairs).
It is supplied with four 50 mm high mounting frames already installed side-by-side.
Jumper rings are also provided.
Material: Fibre-glass reinforced polyester.
Dimensions: 460 x 630 x 125 mm.



8. DISTRIBUTION POINTS (CONTINUATION)

	AMP Code	PCN	colour	UoM	Qty
QDF-660A	0-1194230-9	539056-000	grey	pc	1

This is a cross-connect box designed to house up to 60 QDF-E magazines, (600 pairs).

It is supplied with two 50 mm height mounting frames, in high density version, already installed side-by-side. Jumper rings are also provided.

Material: Fibre-glass reinforced polyester.

Dimensions: 460 x 785 x 125 mm.



	AMP Code	PCN	UoM	Qty
MDG-EP-IDTB-KEY10	5-1191395-3	192401-000	pc	1

This key operates the locks of the QDF series 600 boxes.



9. STREET CABINETS

	AMP Code	PCN	colour	UoM	Qty
QDF-CB-0800-T	5-1191224-9	168177-000	grey	pc	1
QDF-CB-1000-T	9-1190188-0	024364-000	grey	pc	1
QDF-CB-1200-T	9-1192534-5	335580-000	grey	pc	1
QDF-CB-1400-T	4-1190943-7	129912-000	grey	pc	1
QDF-CB-1600-T	4-1190954-2	131272-000	grey	pc	1
QDF-CB-1800-T	1-1194417-9	559634-000	grey	pc	1

QDF-CB-XXXX-T Street cabinet to accommodate 800, 1000, 1200, 1400, 1600, or 1800 pairs (XXXX = pair count), complete with pedestal as shown.

Cabinets come fitted with 60 mm high (40 mm storage space) mounting frames mounted on a stainless steel frame in 4 columns.

Jumper routing guides are also installed.

Accessories supplied:

- one triangular key
- 1 kit/100 pairs containing:
 - one magazine designation cover (grey)
 - two designation cover labels (one blue and one pink)
 - 1 tie wrap
- a 2 m long test and break cord: QDF-4A1-2

Material: fibreglass reinforced polyester.

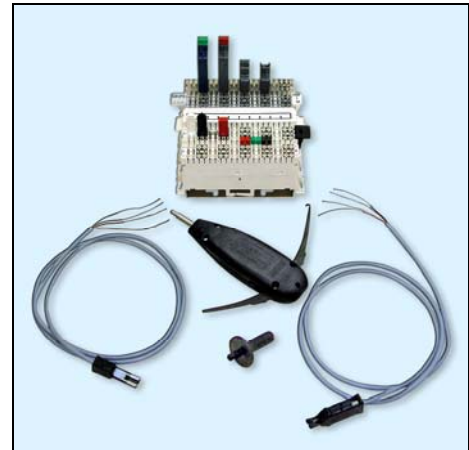


10. QDF TRAINING KIT

	AMP Code	PCN	UoM	Qty
QDF-TK	3-1196134-8	792117-000	pc	1

This kit is delivered assembled. It is designed to:

- provide a basic kit for training purposes
- provide a representative set of samples to demonstrate the product family to customers.



PRODUCT NAME	DESCRIPTION	ITEMS PER KIT
5-position frame.	5-position mounting frame	1
QDF-E1 (transparent)	QDF-E transparent magazine	1
QDF-E1	QDF-E magazine 1-0	2
QDF-E1G	QDF-E grey magazine 1-0	1
QDF-MR	Red marker plug	2
QDF-MB	Black marker plug	2
QDF-MG	Green marker plug	2
QDF-RWGW	QDF-E right wire guide	1
QDF-LWGW	QDF-E left wire guide	1
QDF-DWGW	QDF-E dual wire guide	1
QDF-EP	QDF-E grounding plug	1
QDF-ED	QDF-E magazine designation cover	1
QDF-DLW	Designation cover labels (white)	1
QDF-AC-TOOL-888	Impact installation tool	1
QDF-AC-TOOL-DW1	Manual installation tool (plastic). One insertion point.	1
QDF-1BR	Red break plug	1
QDF-1BBL	Black break plug	1
QDF-1BW	White break plug	1
QDF-DR	Red dummy plug	1
QDF-DB	Black dummy plug	1
QDF-EDW-10B	Narrow designation wing (white)	1
QDF-EDW-G	Wide designation wing (grey)	1
QDF-PMG	Protector marker (green)	1
QDF-PMR	Protector marker (red)	1
QDF-5CSS-220RS	220 V 5-point solid state protector	1
QDF-5CGS-230CS	230 V 5-point gas-tube protector	1
QDF-PR-5GT-230-RS	230 V 5-point gas-tube protector. Small version.	1
QDF-3CGS-230	230 V 3-point gas-tube protector	1
QDF-4RT1-1	4-wire retractable test cord	1
QDF-4A1-1	4-wire test cord	1

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