Collars

Scotchflex

1. Product Description

3M Scotchflex Collars are specially designed for easy and reliable wiring of equipment and installations. The range covers the requirements of end users with Collars designed for opening load, insertion force, and environmental and temperature resistance.

Collars have excellent mechanical resistance and are resistant to fuels, lubricants and most chemicals. The Collars are black and come in a variety of sizes. They're resistant against weather and sunlight for outdoor use. Ideally suited for use in difficult conditions and marine applications.

2. Applications

The Collar is fastened by buckling the tail through the head, the tail is then held in place by the action of the tooth engaging with the serrated head. Fixing collars, unlike cable ties, are made so that the tail can be slotted into the head, this is due to the elasticity of the material and the elastic buckle of the head. Scotchflex Collars are made of much softer and more flexible material than Scotchflex cable ties.

3M Deutschland GmbH
Carl-Schurz-Str.1
41453 Neuss
Germany

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These collars are difficult to fasten by hand – we advise using a fixing tool. As this plier is not pre-loaded, the torque needs to be adjusted to the point that the excess tail is cut, leaving at least 2 or 3 teeth still protruding from the head.

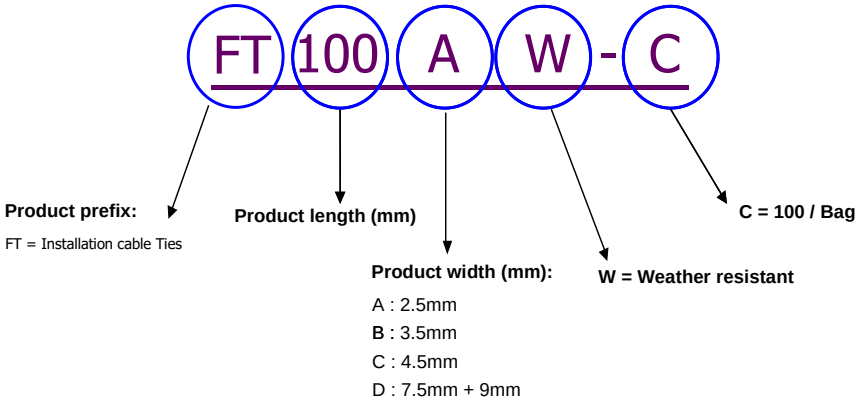
A safety module of at least 2 must always be maintained in normal environmental conditions. A higher safety module (from 2 to 10) must be applied in more severe conditions.

3. Typical Properties

3.1 Technical Information

Material	Technopolymer
Flame retardancy of material	UL94 HB not self-extinguishing
Operating temperature	-40 °C up to 85 °C
Installation temperature	-40 °C
Chemical resistance	Resistant to solvents, reagents, bases, saline solutions, seawater, oils, grease, petrol products, soaps, detergents, alcohol. NOT RESISTANT TO mineral acids, organic acids

3.2 Product Selection



Collars in Black Colour

Product Description	3M ID	Size in mm / colour	Bundling Diameter in mm	Min. Loop Tensile Strength in kg/daN	Operating Temperature	Min. Installation Temperature	Pieces per Bag
COLLAR single head FT 180 DW-C	KE-2340-0041-9	180x9,0 / black	10 - 45	30	-40° - 85°C	-40°C	100
COLLAR double head FT 265 DW-C	KE-2340-0042-7	265x9,0 / black	15 - 63	40	-40° - 85°C	-40°C	100
COLLAR double head FT 360 DW-C	KE-2340-0040-1	360x9,0 / black	25 - 93	40	-40° - 85°C	-40°C	100

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Fixing Tool

Product Descrition	Type	3M ID	Max. Collar width
Collar Fastening Metal Plier	Tie Gun CT 90	KE-2340-0043-5	9 mm

The Metal Plier Tie Gun CT 90 facilitates the tightening and cutting of the Collars. It is non-calibrated and leaves a short length of tail close to the head. This metal tool is very useful for fastening Scotchflex Collars.

4. User Information

4.1 Safety Coefficient

Election of safety coefficient in line with working conditions: 2 < Safety factor < 10.
Preload capacity with cable tie pliers: from 5 kg to 25 kg.
Preload capacity with normal pliers: from 2 kg to 15 kg.

$$\frac{\text{Breaking Load}}{\text{Safety Coefficient}} = \text{Preload + Working Load}$$

4.2 Storage

This product has a 5-year shelf life from the date of manufacturing, stated on the carton label, when stored in a humidity controlled area (10 °C to 27 °C and <75 % relative humidity).

⚠ 4.3 Safety Note

Warning. It is important to remember that, once fastened, a cable tie is difficult to reopen, unless a robust pair of pliers or scissors are used.

THEREFORE, IT IS DANGEROUS TO FASTEN THE CABLE TIE AROUND PARTS OF THE HUMAN BODY OR LET THE PRODUCT BE HANDLED BY UNQUALIFIED PERSONS OR CHILDREN.

5. Additional Information

To request additional product information, see address below.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

All questions of warranty and liability relating to 3M products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

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