

TISA-FLEX® CRS

MECHANICAL PROTECTION

-50°C +150°C

FEATURES AND ASSETS:

- **Excellent abrasion resistance**
- **Excellent cutting resistance**
- **Self-extinguishing and halogen-free**
- **Lightweight**

TYPICAL APPLICATIONS:

- **Cable & bundling protection for alarm systems**
- **Automotive or industrial**

SPECIFICATIONS :

TISA-FLEX® CRS is a braided flexible and expandable sleeve specially designed to provide cut resistant properties. This sleeve is made of a mix of high strength yarns. Its open construction is particularly suitable to abrasion protection of bundles of electrical cables in the automotive industry.



TISA-FLEX® CRS is particularly suitable to protect alarm wires and to prevent easy cutting by cissors, cutters, knives, cutting pliers.

With low expansion ratio it provides good coverness and easy installation on harnesses.

Supplied in reels or cut to length, **TISA-FLEX® CRS** is an efficient and safe solution to protect your electrical cables from thefts.

ISO 14001
ISO 9001
ISO/TS 16949
BUREAU VERITAS
Certification



ISO 13485
BUREAU VERITAS
Certification



TRESSE
INDUSTRIE



TISA-FLEX® CRS

FEATURE	METHOD, STANDARD, REGULATIONS	VALUE
Chemical nature of monofilament		Liquid cristal polymer based yarns Stainless steel yarn
Melting point		250°C
Continuous working temperature		From -50 to +150°C
Peak temperature		+175°C
Mechanical properties : - Abrasion resistance - Tensile strength	Renault D44 1959	No significant damage in compliance with method > 3.2 Gpa
Resistance to automotive fluids Moisture absorption	Renault D47 1924/A	No significant damage in compliance with method 0.1%
Thermal ageing		In compliance with automotive specifications, resistance > 1000 h at 150°C
Chemical properties		Good resistance to acids, bases and solvents
Flammability	- Renault D45 1333 and FMVSS 302 - UL 94	- Compliant -Raw material classed V2
RoHS	Directive 2002/95/EC	Compliant
Environment		Compliant Classed non-ecotoxic for the environ- ment but biodegradable with difficulty

REFERENCES	USE **		CONSTRUCTION		CUT PIECES
BLACK	MIN (mm)	MAX (mm)	Number of carriers	Weight g/100m*	
CRS 04	2	7	32	928	from 80 to 1000 mm
CRS 14	12	19	64	1630	from 80 to 1000 mm

* Weight as guidance for 100 mm.

** Recommended range of use

These references are those of our standard TISA-FLEX® CRS range. Please contact us for any other construction, parameter, material, packaging, colour, etc.



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