



## 1. Description of product:

Rope type:	Hyper static rope
Diameter:	9mm
Material:	Sheath: Aramid & HMPE Core: Polypropylene
Intended use:	For canyoning, caving and rescue operations. If there is a possibility of a fall > FF0.3, then only together with other safety equipment protecting against fall from a height.
Trademark:	CE4Y GmbH, Blumenbergstrasse 15, 8633 Wolfhausen, Switzerland
Applied Standard:	EN1891:1998 – Type B (see exceptions) EN365:2004

## 2. Specification of product – parameters and test methods:

Technical parameter	Required value	Test method (reference to EN 1891 and corresponding clause)	Modification of test method
1. Materials	> 195°C melting point	EN1891 4.1	Materials used with lower melting point than 195°C for the use in water: Core: Polypropylene Sheath: Aramid & HMPE
2. Rope diameter D	min. 8.5mm max. 16mm	EN1891 4.2 / 5.3	-
3. Knotability K	< 1.2	EN1891 4.3 / 5.4	-
4. Sheath slippage S	< 15mm	EN1891 4.4 / 5.5.6	-
5. Elongation E	< 2.5%	EN1891 4.5 / 5.6	-
6. Shrinkage S	< 5%	EN1891 4.6 / 5.7	-
7. Mass per unit length M	45g	EN1891 4.7 / 5.8	-
8. Mass of sheath Sp	> 39%	EN1891 4.8 / 5.8 / 5.3	-
9. Mass of the core C	> 49%	EN1891 4.8 / 5.8 / 5.3	-
10. Fall arrest peak force F	< 6kN	EN1891 4.10 / 5.9.4	-
11. Dynamic performance	> 5 falls @80kg	EN1891 4.11 / 5.9.5	> 10 falls with FF0.5 instead of FF1 @80kg
12. Static strength w/o termination	>20kN	EN1891 4.12.1	-
13. Static strength with termination	> 12kN	EN1891 4.12.2	with figure-8 knot

### 3. Technical parameters of the rope:

1. Materials	Materials used with lower melting point than 195°C for the use in water: Core: Polypropylene Sheath: Aramid & HMPE
2. Rope diameter D	9mm +/-0.5mm
3. Knotability K	K = 0.6
4. Sheath slippage S	0.8%
5. Elongation E	1.9%
6. Shrinkage S	0.3%
7. Mass per unit length M	45g/m
8. Mass of sheath Sp	45%
9. Mass of the core C	55%
10. Fall arrest peak force F	< 6kN at FF0.3
11. Dynamic performance	> 15 falls with FF0.5 @80kg
12. Static strength w/o termination	21kN
13. Static strength with termination	13.5kN

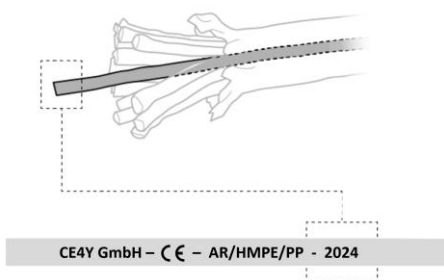
### 4. Marking

#### 4.1. Label marking:

- 1 NAME OF THE PRODUCT
- 2 DIAMETER
- 3 STATIC BREAKING STRENGTH
- 4 PRODUCTION DATE
- 5 ROPE TYPE
- 6 NOTIFIED BODY
- 7 COMPANY NAME



#### 4.2. Inner tape marking:



### 5. Instruction for use

5.1: Information mentioned in chapter 7 of EN 1891:1998, except point:

k: (no EN1891)

5.2: Information mentioned in chapter 4.2.2 of EN 365:2004, except points:

h, l, q, r, s