

Data sheet:**HPER® High-Performance cable ties / internally toothed
colored**

Our premium polyamide 6.6 cable ties in the high performance version are specially designed for use under extreme conditions and give our most demanding customers the performance buffer they need. In the coloured version, they create order and clarity in a wide range of applications. Our HPER® cable ties impress with their excellent workmanship, comfortable and safe handling and long service life.

**Technical data:**

Material:	Polyamide 6.6 (PA 6.6 / cadmium-free, lead-free)
Color:	blue, green, red, yellow, orange, brown, bamboo
Operating temperature:	-40 °C to + 85 °C (temporarily +110 °C)
Installation temperature:	-10 °C to + 60 °C
Fire protection properties:	self-extinguishing according to UL 94 V0* (*except bamboo)
Chemical resistance:	PA 6.6 has excellent resistance to conventional fluids, lubricants, oils, petrol, aliphatic hydrocarbons, alcohols, ketones, cyclic and aromatic hydrocarbons, halogenated solvents, trichloroethylene and perchloroethylene. Limited resistance to weak organic acids, ammonia and amines.
Tensile force:	The minimum holding force* is specified in accordance with EN 62275. Our own and independent tests have shown an additional performance buffer of 50 - 70% (depending on the design).
Standards:	REACH, RoHS, developed to meet the MIL standard (tensile strength)



For size chart see pages 2 (from 100x2,5 mm to 360x4,6 mm)

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Size chart:

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Article-no.	Description	Dimensions [mm]	Minimum tensile strength [N] *	Bundling max. Ø [mm]	Color	PU [pcs.]
22072-H	K10025B-H	100 x 2,5	80	24	blue	100
22081-H	K20048B-H	200 x 4,6	220	54	blue	100
22100-H	K20048BB-H	200 x 4,6	220	54	bamboo	100
22099-H	K20048BR-H	200 x 4,6	220	54	brown	100
22082-H	K20048G-H	200 x 4,6	220	54	green	100
22092-H	K20048O-H	200 x 4,6	220	54	orange	100
22083-H	K20048R-H	200 x 4,6	220	54	red	100
22103-H	K20048SG-H	200 x 4,6	220	54	silvergray	100
22084-H	K20048Y-H	200 x 4,6	220	54	yellow	100
22086-H	K29048B-H	290 x 4,6	220	82	blue	100
22102-H	K29048BB-H	290 x 4,6	220	82	bamboo	100
22101-H	K29048BR-H	290 x 4,6	220	82	brown	100
22087-H	K29048G-H	290 x 4,6	220	82	green	100
22093-H	K29048O-H	290 x 4,6	220	82	orange	100
22088-H	K29048R-H	290 x 4,6	220	82	red	100
22104-H	K29048SG-H	290 x 4,6	220	82	silvergray	100
22089-H	K29048Y-H	290 x 4,6	220	82	yellow	100
22095-H	K36048B-H	360 x 4,6	220	106	blue	100
22096-H	K36048G-H	360 x 4,6	220	106	green	100
22098-H	K36048O-H	360 x 4,6	220	106	orange	100
22094-H	K36048R-H	360 x 4,6	220	106	red	100
22097-H	K36048Y-H	360 x 4,6	220	106	yellow	100

(Subject to technical changes within the tolerances)

*** Minimum holding force based on EN 62275 / Independent and own tests prove an additional power buffer of 50 - 70 % (depending on the design) compared to the specified minimum holding force.**