

3.1 Cable Protection Systems

Protective Tubing



Spiral Binding SBPE, SBPEFR, SBPA, SBPAV0 and SBPTFE

Features and Benefits

Spiral Binding is used for organising and protecting cables and hoses. Due to the spiral structure, spiral binding can be applied to cables or hoses in situ. Cables can branch out at any point and in any direction.

HellermannTyton spiral binding is available in a wide range of diameters, colours and materials:

- Standard polyethylene SBPE for general applications
- Flame-retardant polyethylene SBPEFR for enhanced flame protection
- Polyamide SBPA for added strength and protection against abrasion
- Flame-retardant polyamide SBPAV0 with UL94 V0 classification for special applications, for instance in the rail and aviation industries
- PTFE (SBPTFE) for superior protection against abrasion, chemicals and extreme temperatures; excellent fire protection



Spiral binding SBPE.

Application

Spiral binding is used to route and bind cables that need high mechanical protection, for instance in the automotive industry as well as in control panels and cabinets. It is also used in electrical installation, where safety is a primary consideration. Spiral binding provides a tidy solution for many applications.

Material Data	
Material	Polyethylene (PE)
Operating Temperature	-60 °C to +90 °C, intermittent +120 °C
Flammability	UL94 HB



Material Data	
Material	Polyethylene (PEFR), Flame retardant
Operating Temperature	-60 °C to +80 °C, intermittent +120 °C
Flammability	UL94 V2, FMVSS 302 Type B



Material Data	
Material	Polyamide 6 V0 (PA6V0)
Operating Temperature	-60 °C to +95 °C, intermittent +130 °C
Flammability	UL94 V0



Material Data	
Material	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C, intermittent +130 °C
Flammability	UL94 HB



Material Data	
Material	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, intermittent +350 °C
Flammability	UL94 V0



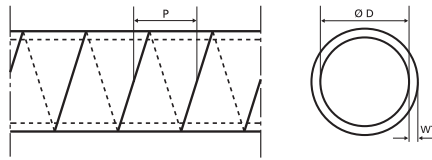
Technical Table

Article-No.	Type	Ø D	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Material	Colour	Pack Cont. (m)
SBPE, 5 m – Lengths									
161-41103	SBPE4D	4.0	1.0	7.8	5.0	20.0	PE	Natural (NA)	5
161-41104	SBPE4D	4.0	1.0	7.8	5.0	20.0	PE	Black (BK)	5
161-41105	SBPE4D	4.0	1.0	7.8	5.0	20.0	PE	Grey (GY)	5
161-41203	SBPE9D	9.0	1.4	12.5	10.0	100.0	PE	Natural (NA)	5
161-41204	SBPE9D	9.0	1.4	12.5	10.0	100.0	PE	Black (BK)	5
161-41205	SBPE9D	9.0	1.4	12.5	10.0	100.0	PE	Grey (GY)	5

All dimensions in mm. Subject to technical changes.



Spiral Binding SBPE, SBPEFR, SBPA, SBPAV0 and SBPTFE



Technical Table

Article-No.	Type	Ø D	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Material	Colour	Pack Cont. (m)
SBPE									
161-41000	SBPE1.5	1.5	0.8	6.0	1.6	8.0	PE	Natural (NA)	30
161-41001	SBPE1.5	1.5	0.8	6.0	1.6	8.0	PE	Black (BK)	30
161-41002	SBPE1.5	1.5	0.8	6.0	1.6	8.0	PE	Grey (GY)	30
161-41100	SBPE4	4.0	1.0	7.8	5.0	20.0	PE	Natural (NA)	30
161-41101	SBPE4	4.0	1.0	7.8	5.0	20.0	PE	Black (BK)	30
161-41102	SBPE4	4.0	1.0	7.8	5.0	20.0	PE	Grey (GY)	30
161-41200	SBPE9	9.0	1.4	12.5	10.0	100.0	PE	Natural (NA)	30
161-41201	SBPE9	9.0	1.4	12.5	10.0	100.0	PE	Black (BK)	30
161-41202	SBPE9	9.0	1.4	12.5	10.0	100.0	PE	Grey (GY)	30
161-41300	SBPE16	16.0	1.6	16.0	20.0	150.0	PE	Natural (NA)	30
161-41301	SBPE16	16.0	1.6	16.0	20.0	150.0	PE	Black (BK)	30
161-41302	SBPE16	16.0	1.6	16.0	20.0	150.0	PE	Grey (GY)	30
SBPEFR									
161-43000	SBPEFR1.5	1.5	0.8	6.0	1.6	8.0	PEFR	White (WH)	30
161-43001	SBPEFR1.5	1.5	0.8	6.0	1.6	8.0	PEFR	Black (BK)	30
161-43100	SBPEFR4	4.0	1.0	7.8	5.0	20.0	PEFR	White (WH)	30
161-43101	SBPEFR4	4.0	1.0	7.8	5.0	20.0	PEFR	Black (BK)	30
161-43200	SBPEFR9	9.0	1.4	12.5	10.0	100.0	PEFR	White (WH)	30
161-43201	SBPEFR9	9.0	1.4	12.5	10.0	100.0	PEFR	Black (BK)	30
161-43300	SBPEFR16	16.0	1.6	16.0	20.0	150.0	PEFR	White (WH)	30
161-43301	SBPEFR16	16.0	1.6	16.0	20.0	150.0	PEFR	Black (BK)	30
SBPA									
161-42000	SBPA1.5	1.5	0.4	6.0	1.6	8.0	PA6	Natural (NA)	30
161-42100	SBPA4	4.0	0.6	7.8	5.0	20.0	PA6	Natural (NA)	30
161-42200	SBPA9	9.0	1.0	12.5	10.0	100.0	PA6	Natural (NA)	30
161-42300	SBPA16	16.0	1.2	16.0	20.0	150.0	PA6	Natural (NA)	30
SBPAV0									
161-44000	SBPAV01.5	1.5	0.4	6.0	1.6	8.0	PA6V0	Black (BK)	30
161-44100	SBPAV04	4.0	0.6	7.8	5.0	20.0	PA6V0	Black (BK)	30
161-44200	SBPAV09	9.0	1.0	12.5	10.0	100.0	PA6V0	Black (BK)	30
161-44300	SBPAV016	16.0	1.2	16.0	20.0	150.0	PA6V0	Black (BK)	30
SBPTFE									
161-45000	SBPTFE1.5	1.5	0.5	6.0	1.6	8.0	PTFE	Natural (NA)	5
161-45100	SBPTFE4	4.0	0.7	7.8	5.0	20.0	PTFE	Natural (NA)	5
161-45200	SBPTFE9	9.0	1.0	12.5	10.0	100.0	PTFE	Natural (NA)	5

All dimensions in mm. Subject to technical changes.

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