

General Information cable reels

Cable reels for OFC cable from the Prysmian Presov plant

Cables are delivered on wooden cable reels or polymer cable reels. There are four standard series of delivery reels:

Reels series F

Small polymer reels for fiber cords. The F26 reel has a capacity of 4000 m of 900 µm fiber cord. The spindle bore diameter is 25 mm.

Reels series S

Reels series S are mainly made of polypropylene. The spindle bore size depend on the reel size, see table 1.

The polymer reels are marked with a recycling symbol, offering the opportunity to manufacture new products from the recycled reels. They can also be used for manufacturing energy, as carbon oxide and water are the only by-products remaining after burning polypropylene.



Reels series K

Reels series K are strong reels designed for heavy loads and for prolonged storage outside. They are made of North European softwood. The reel spindle hole is reinforced with a steel bushing. The spindle bore size depend on the reel size, see table 1.

The reel series K fulfil Swedish standard SS 84 28 01

ISPM no. 15

The wooden reel series K and P are heat treated and certified according to FAO International Standard for Phytosanitary Measures (ISPM) no. 15.

They thus fulfil the FAO "Guidelines for regulation of wood packing material in international trade" of 2002 with modifications 2006. They also fulfil the requirements of the EU Directive 2004/102/EC.

General Information cable reels

Reel dimensions and cable capacities

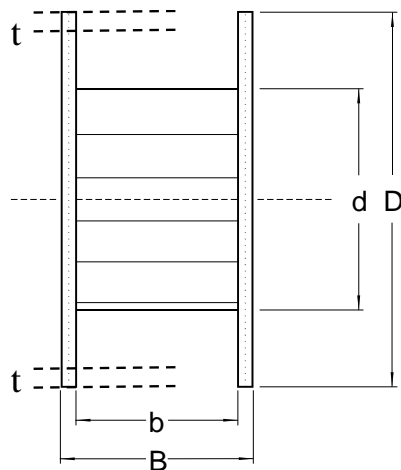
The dimensions and nominal weight of the reels are given in the table 1 below. The reel weight may vary due to the moisture content of the reels.

In table 2a and 2b, the maximum nominal capacity of the reels is given as a function of the cable diameter in the table below.

It is not possible to specify the reel capacity as delivery length. However, with given delivery length and the cable diameter, the reel can be selected from Tables 2a and 2b. Green highlighted lengths are considered as standard delivery. Any length beyond this region is subject to confirmation from the factory and higher cost.

Note that in these calculations, tolerance gap (t) from flange is being considered to prevent cables being damaged during transport.

- D: Flange diameter
- d: Barrel diameter
- B: Outer reel width
- b: Inner reel width
- t: Tolerance gap between cable winding & flange



General Information cable reels

Table 1: Reels, nominal dimensions and weights.

Reel type	SAP Code	Flange diameter D [mm]	Barrel diameter d [mm]	Outer width B [mm]	Inner width b [mm]	Spindle bore diameter [mm]	Tolerance gap from Flange t (mm)	Nominal weight [kg]
F26	DPV26	240	150	220	210	25	15	0.75
S40	DPE4005	400	170	270	235	75	20	1.5
S40N	DPV040N	400	170	275	235	75	20	2
S40B	DPV040B	400	200	475	435	75	20	2.7
S60	DPV060S	600	250	470	400	75	20	8.2
S80A	DPV080A	800	400	485	400	83	20	11
S80	DPV080S	800	500	585	500	83	20	12.3
S10P	DPV1001	1000	500	510	400	83	20	22
S10	DPV100S	1000	500	730	610	83	20	27
S12	DPV120S	1200	630	1000	850	109	30	58
K10	DW3100A	1000	500	690	600	106	30	45
K11	DW3110A	1100	500	740	650	106	30	69
K12N	DW3120S	1200	680	700	600	106	30	69.5
K12	DW3120A	1200	680	955	855	106	30	83
K14	DW3140A	1400	700	960	850	106	30	118
K16	DW3160A	1600	950	970	850	106	40	144
K18	DW3180A	1800	1100	970	850	132	40	250
K20	DW3200A	2000	1300	1140	1010	132	40	297
K22	DW3220A	2200	1400	1130	1000	132	40	380
K24	DW3240A	2400	1400	1140	1010	132	40	464

Table 2a: Cable Diameter vs. Maximum Length on S-Reels

Diameter [mm]	S40	S40N	S40B	S60	S80A	S80	S10P	S10	S12
1.6 ± 0.1	6169	6169	-	-	-	-	-	-	-
1.8 ± 0.1	4997	4997	8200	-	-	-	-	-	-
2.0 ± 0.1	4130	4130	6776	-	-	-	-	-	-
2.5 ± 0.1	2742	2742	4499	-	-	-	-	-	-
2.8 ± 0.1	2221	2221	3644	-	-	-	-	-	-
3.0 ± 0.1	1952	1952	3203	8084	-	-	-	-	-
3.5 ± 0.15	1384	1384	2271	5733	-	-	-	-	-
4.0 ± 0.15	1081	1081	1774	4477	7340	7179	-	-	-
4.5 ± 0.15	868	868	1424	3593	5890	5761	-	-	-
5.0 ± 0.15	712	712	1168	2947	4831	4725	7717	-	-
5.5 ± 0.15	594	594	975	2461	4034	3946	6444	-	-
6.0 ± 0.15	504	504	826	2086	3419	3344	5462	8329	-
6.5 ± 0.15	-	-	709	1790	2935	2871	4688	7149	-
7.0 ± 0.15	-	-	615	1553	2547	2491	4068	6203	-
7.5 ± 0.15	-	-	539	1361	2231	2182	3563	5433	-
8.0 ± 0.15	-	-	-	1202	1970	1927	3147	4799	-
8.5 ± 0.15	-	-	-	1069	1753	1714	2799	4269	8046
9.0 ± 0.15	-	-	-	957	1569	1535	2506	3822	7204
9.5 ± 0.15	-	-	-	862	1413	1382	2257	3442	6488
10.0 ± 0.15	-	-	-	780	1279	1251	2043	3116	5873
10.5 ± 0.15	-	-	-	710	1164	1138	1858	2834	5342
11.0 ± 0.15	-	-	-	648	1063	1039	1698	2589	4879
11.5 ± 0.15	-	-	-	595	975	953	1557	2374	4475
12.0 ± 0.15	-	-	-	547	897	877	1433	2185	4118
12.5 ± 0.15	-	-	-	505	828	810	1323	2018	3803

General Information cable reels

Table 2b: Cable Diameter vs. Maximum Length on K-Reels

Diameter [mm]	K10	K11	K12N	K12	K14	K16	K18	K20	K22	K24
6.0 ± 0.15	7836	-	-	-	-	-	-	-	-	-
6.5 ± 0.15	6726	-	-	-	-	-	-	-	-	-
7.0 ± 0.15	5836	8277	7647	-	-	-	-	-	-	-
7.5 ± 0.15	5112	7250	6698	-	-	-	-	-	-	-
8.0 ± 0.15	4515	6403	5916	8430	-	-	-	-	-	-
8.5 ± 0.15	4016	5696	5262	7499	-	-	-	-	-	-
9.0 ± 0.15	3596	5100	4712	6714	-	-	-	-	-	-
9.5 ± 0.15	3238	4593	4243	6047	-	-	-	-	-	-
10.0 ± 0.15	2932	4158	3841	5474	8457	-	-	-	-	-
10.5 ± 0.15	2666	3782	3494	4979	7692	8319	-	-	-	-
11.0 ± 0.15	2436	3454	3192	4548	7027	7599	-	-	-	-
11.5 ± 0.15	2234	3168	2927	4171	6444	6969	-	-	-	-
12.0 ± 0.15	2056	2915	2694	3838	5931	6414	7934	-	-	-
12.5 ± 0.15	1898	2692	2487	3544	5476	5922	7326	-	-	-
13.0 ± 0.15	1758	2494	2304	3283	5072	5486	6786	-	-	-
13.5 ± 0.25	1587	2250	2079	2963	4578	4951	6124	8281	-	-
14.0 ± 0.25	1479	2098	1938	2762	4267	4615	5709	7719	-	-
14.5 ± 0.25	1382	1960	1811	2581	3988	4313	5335	7213	-	-
15.0 ± 0.25	1295	1836	1696	2417	3735	4039	4996	6755	8473	-
15.5 ± 0.25	1215	1723	1592	2268	3505	3790	4689	6340	7952	-
16.0 ± 0.25	1142	1620	1497	2133	3296	3564	4409	5961	7478	-
16.5 ± 0.25	1076	1526	1410	2009	3105	3358	4153	5616	7044	-
17.0 ± 0.25	1016	1440	1331	1896	2930	3168	3919	5300	6647	-
17.5 ± 0.4	-	1317	1217	1734	2679	2897	3584	4846	6079	8281
18.0 ± 0.4	-	1248	1153	1643	2539	2745	3396	4592	5760	7846
18.5 ± 0.4	-	1184	1094	1559	2409	2605	3222	4357	5465	7445
19.0 ± 0.4	-	1125	1040	1481	2289	2475	3062	4140	5193	7074
19.5 ± 0.4	-	1070	-	1409	2177	2355	2913	3938	4940	6730
20.0 ± 0.4	-	1020	-	1342	2074	2243	2774	3751	4705	6410
21.0 ± 0.4	-	-	-	1222	1888	2042	2526	3415	4284	5835
22.0 ± 0.4	-	-	-	1117	1726	1867	2309	3122	3916	5335
23.0 ± 0.4	-	-	-	1025	1584	1713	2119	2865	3594	4896
24.0 ± 0.4	-	-	-	-	1459	1578	1952	2639	3310	4509
25.0 ± 0.4	-	-	-	-	1348	1458	1803	2438	3058	4166
26.0 ± 0.4	-	-	-	-	1249	1351	1671	2260	2834	3861
27.0 ± 0.4	-	-	-	-	1161	1256	1553	2100	2634	3588
28.0 ± 0.4	-	-	-	-	1082	1170	1447	1957	2454	3343
29.0 ± 0.4	-	-	-	-	1010	1093	1352	1828	2292	3123
30.0 ± 0.4	-	-	-	-	-	1023	1265	1711	2146	2923

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