
































sectors	issuers
Low Beta	6
TMT/ AUTO	8
REIT	6
Energy	4
UTILS	11
missing	1

	ticker	short spread	long spread	curve per year	rating	curve change (14d)	curve change (30d)	sector
Low Beta	SOLBBB	285	328	78	BB+	-4	-14	Low Beta
	DBOERS	24	157	21	NR	5	5	Low Beta
	BAYNGR	308	349	13	BB+	1	2	Low Beta
	MRKGR	187	245	13	BBB	2	3	Low Beta
	DBHNGR	196	206	2	BBB+	2	0	Low Beta
	AKEFP	305	294	59	BBB-	-7	4	Low Beta
	av	218	263	20		0	0	
	stDev	99	68	28		4	7	
TMT/ AUTO	SESGFP	319	437	57	BB	-1	8	TMT/ AUTO
	ORAFP	195	227	12	BBB-	1	7	TMT/ AUTO
	TELIAS	234	246	4	BBB-	-4	-8	TMT/ AUTO
	IFXGR	341	370	9	NR	4	5	TMT/ AUTO
	VW	371	405	5	BBB-	3	-1	TMT/ AUTO
	BERTEL	329	367	9	BB+	10	8	TMT/ AUTO
	TELEFO	366	383	5	BB	9	11	TMT/ AUTO
	VOD	296	310	8	BB+	6	3	TMT/ AUTO
	av	306	343	13		4	4	
	st Dev	59	70	17		4	6	
REIT	GYCGR	252	317	46	BBB-	-1	-17	REIT
	ACFP	646	684	38	BB	21	47	REIT
	AKFAST	393	425	12	NR	2	0	REIT
	SBBSS	479	495	21	BB	4	62	REIT
	CPIPGR	535	550	8	BB+	3	-10	REIT
	ULFP	650	546	41	BBB	17	1	REIT
	av	492	503	14		8	14	
	st Dev	140	114	28		8	29	
Energy	REPSM	382	406	25	BB+	-4	-6	Energy
	BPLN	328	367	13	BBB+	3	-	Energy
	TOTAL	220	235	5	A-	0	-5	Energy
	OMVAV	285	290	8	BBB	12	4	Energy
UTILS	EDPPL	314	340	25	BB	95	73	UTILS
	NTGYSM	305	332	19	BB+	-4	9	UTILS
	EDF	351	369	11	BB+	-13	5	UTILS
	ENELIM	257	303	15	BBB-	2	-3	UTILS
	SEVFP	249	287	9	NR	-2	-2	UTILS
	NGGLN	235	263	10	BBB-	0	-6	UTILS
	ORSTED	182	223	10	BB+	1	0	UTILS
	ENBW	209	233	9	BBB-	1	0	UTILS
	IBESM	209	207	1	BBB-	4	-3	UTILS
	ENGIFP	236	245	4	BBB	13	20	UTILS
	RWE	297	279	24	BB	3	1	UTILS

issuers	bonds
VW	11
TELEFO	8
TOTAL	6
ENBW	6
ORAFP	5
ENGIFP	5
EDF	5
SOLBBB	4
BAYNGR	4
MRKGR	4
REPSM	4
ENELIM	4
ORSTED	4
AKEFP	3
ERFFP	3
OMVAV	3
SEVFP	3
IBESM	3
EDPPL	3
ACFP	3
ARNDTN	3
GYCGR	3

			short	long		curve	curve	curve				
	short ticker	long ticker	spread	spread	ysrs	per year	change (14d)	change (30d)	min	max	%-ile	
vw	pairBasis VW 3 3/4 PERP nc-21	VW 2 1/2 PERP nc-22	238	363	1.0	126	-26	52	-175	151		0.92
	pairBasis VW 2 1/2 PERP nc-22	VW 2.7 PERP nc-22	363	371	0.7	11	5	-12	-77	35		0.76
	pairBasis VW 2.7 PERP nc-22	VW 5 1/8 PERP nc-23	371	355	0.7	23	5	-10	-51	30		0.42
	pairBasis VW 5 1/8 PERP nc-23	VW 3 3/8 PERP nc-24	355	392	0.8	45	1	4	-25	63		0.71
	pairBasis VW 3 3/8 PERP nc-24	VW 3 1/2 PERP nc-25	392	403	1.0	11	-2	-	8	25		0.15
	pairBasis VW 3 1/2 PERP nc-25	VW 4 5/8 PERP nc-26	403	397	0.8	7	-4	-	-14	1		0.57
	pairBasis VW 4 5/8 PERP nc-26	VW 3 7/8 PERP nc-27	397	408	1.2	91	1	-8	-3	53		0.25
	pairBasis VW 3 7/8 PERP nc-27	VW 4 5/8 PERP nc-28	408	419	1.0	11	-1	2	-53	27		0.80
	pairBasis VW 4 5/8 PERP nc-28	VW 3 7/8 PERP nc-29	419	423	1.0	41	-2	-	3	25		0.04
	pairBasis VW 3 7/8 PERP nc-29	VW 3 1/2 PERP nc-30	423	405	0.8	24	8	-	-60	-19		1.03
	whole cur VW 2 1/2 PERP nc-22	VW 4 5/8 PERP nc-28	363	419	6.3	9	1	-4	-169	159		0.69
	whole cur VW 2.7 PERP nc-22	VW 3 7/8 PERP nc-29	371	423	6.5	8	0	-	41	88		0.23
	long end VW 4 5/8 PERP nc-26	VW 3 1/2 PERP nc-30	397	405	4.0	2	1	0	-46	42		0.62
telefo	pairBasis TELEFO 3 3/4 PERP nc-22	TELEFO 2 5/8 PERP nc-23	342	360	1.0	18	111	123	-397	182		0.72
	pairBasis TELEFO 2 5/8 PERP nc-23	TELEFO 3 PERP nc-23	360	367	0.5	15	-213	-223	-104	385		0.23
	pairBasis TELEFO 3 PERP nc-23	TELEFO 5 7/8 PERP nc-24	367	354	0.6	-22	-10	11	-70	16		0.66
	pairBasis TELEFO 5 7/8 PERP nc-24	TELEFO 4 3/8 PERP nc-24	354	367	0.7	18	7	21	-46	33		0.74
	pairBasis TELEFO 4 3/8 PERP nc-24	TELEFO 3 7/8 PERP nc-26	367	396	1.5	19	44	35	-224	109		0.76
	pairBasis TELEFO 3 7/8 PERP nc-26	TELEFO 2.502 PERP nc-27	396	361	0.6	57	-106	-74	-91	187		0.20
	pairBasis TELEFO 2.502 PERP nc-27	TELEFO 2 7/8 PERP nc-27	361	384	0.4	59	-10	27	2	47		0.46
BB	whole cur TELEFO 2 5/8 PERP nc-23	TELEFO 3 7/8 PERP nc-26	360	396	3.3	11	-12	-11	3	56		0.62
	whole cur TELEFO 3 PERP nc-23	TELEFO 2 7/8 PERP nc-27	367	384	3.8	4	-1	10	-127	78		0.70
	long end TELEFO 5 7/8 PERP nc-24	TELEFO 2 7/8 PERP nc-27	354	384	3.2	9	1	10	-57	74		0.66

				short	long		curve	curve	curve			
	short ticker	long ticker	spread	spread	yrs	per year	change (14d)	change (30d)	min	max	%-ile	
total A-	pairBasis TOTAL 2 1/4 PERP nc-21	TOTAL 3 7/8 PERP nc-22	222	209	1.2	-11	-38	-3	-227	78	 0.70	
	pairBasis TOTAL 3 7/8 PERP nc-22	TOTAL 2.708 PERP nc-23	209	220	1.0	11	-2	-2	-129	38	 0.84	
	pairBasis TOTAL 2.708 PERP nc-23	TOTAL 1 3/4 PERP nc-24	220	231	0.9	13	-2	4	-38	41	 0.62	
	pairBasis TOTAL 1 3/4 PERP nc-24	TOTAL 2 5/8 PERP nc-25	231	236	0.9	5	-3	-21	-11	35	 0.33	
	pairBasis TOTAL 2 5/8 PERP nc-25	TOTAL 3.369 PERP nc-26	236	235	1.6	0	-3	-2	-119	21	 0.84	
	whole cur TOTAL 3 7/8 PERP nc-22	TOTAL 2 5/8 PERP nc-25	209	236	2.8	10	-2	-6	-142	79	 0.76	
	long end TOTAL 2.708 PERP nc-23	TOTAL 3.369 PERP nc-26	220	235	3.4	5	-3	-5	-104	54	 0.75	
enbw BBB-	pairBasis ENBW 3 5/8 04/02/76 nc-21	ENBW 3 5/8 04/02/76 nc-21	192	192	0.0	-	-	-	-11	133	 0.04	
	pairBasis ENBW 3 5/8 04/02/76 nc-21	ENBW 3 3/8 04/05/77 nc-22	192	187	0.8	-7	27	-1	-11	133	 0.04	
	pairBasis ENBW 3 3/8 04/05/77 nc-22	ENBW 1 1/8 11/05/79 nc-24	187	209	2.6	9	-10	-13	-247	57	 0.89	
	pairBasis ENBW 1 1/8 11/05/79 nc-24	ENBW 1 7/8 06/29/80 nc-26	209	235	1.7	15	1	-	22	26	 0.86	
	pairBasis ENBW 1 7/8 06/29/80 nc-26	ENBW 1 5/8 08/05/79 nc-27	235	233	1.1	-1	0	-	-3	-1	 0.71	
	whole cur ENBW 3 5/8 04/02/76 nc-21	ENBW 1 5/8 08/05/79 nc-27	192	233	6.1	7	-1	-6	-264	108	 0.82	
	long end ENBW 1 1/8 11/05/79 nc-24	ENBW 1 5/8 08/05/79 nc-27	209	233	2.8	9	1	0	-45	42	 0.80	
orafp BBB-	pairBasis ORAFP 4 PERP nc-21	ORAFP 5 1/4 PERP nc-24	140	195	2.4	23	-4	-10	-43	102	 0.67	
	pairBasis ORAFP 5 1/4 PERP nc-24	ORAFP 2 3/8 PERP nc-25	195	212	0.9	19	3	14	-21	36	 0.68	
	pairBasis ORAFP 2 3/8 PERP nc-25	ORAFP 5 PERP nc-26	212	227	1.7	9	-2	4	-20	37	 0.61	
	pairBasis ORAFP 5 PERP nc-26	ORAFP 1 3/4 PERP nc-26	227	224	0.2	-16	10	79	-35	78	 0.28	
	whole cur ORAFP 4 PERP nc-21	ORAFP 1 3/4 PERP nc-26	140	224	5.2	16	-2	2	8	143	 0.56	
	long end ORAFP 2 3/8 PERP nc-25	ORAFP 1 3/4 PERP nc-26	212	224	1.9	6	-1	12	-24	111	 0.27	
engifp BBB	pairBasis ENGIFP 4 3/4 PERP nc-21	ENGIFP 1 3/8 PERP nc-23	153	236	1.5	-5	-14	-27	-33	139	 0.68	
	pairBasis ENGIFP 1 3/8 PERP nc-23	ENGIFP 3 7/8 PERP nc-24	236	227	1.4	-7	7	26	-46	58	 0.36	
	pairBasis ENGIFP 3 7/8 PERP nc-24	ENGIFP 3 1/4 PERP nc-24	227	235	0.5	16	16	6	-24	28	 0.61	
	pairBasis ENGIFP 3 1/4 PERP nc-24	ENGIFP 1 5/8 PERP nc-25	235	245	0.4	-7	-9	20	-15	45	 0.41	
	whole cur ENGIFP 4 3/4 PERP nc-21	ENGIFP 1 5/8 PERP nc-25	153	245	3.7	25	-2	1	17	138	 0.62	
	long end ENGIFP 3 7/8 PERP nc-24	ENGIFP 1 5/8 PERP nc-25	227	245	0.9	21	5	12	-10	35	 0.61	
edf BB+	pairBasis EDF 4 1/8 PERP nc-22	EDF 4 PERP nc-24	222	351	2.5	53	10	26	-27	270	 0.53	
	pairBasis EDF 4 PERP nc-24	EDF 5 3/8 PERP nc-25	351	354	0.6	6	-33	-3	-18	36	 0.39	
	pairBasis EDF 5 3/8 PERP nc-25	EDF 5 PERP nc-26	354	369	1.0	15	6	10	-87	44	 0.78	
	pairBasis EDF 5 PERP nc-26	EDF 3 PERP nc-27	369	385	1.6	10	0	19	-112	26	 0.93	
	whole cur EDF 4 1/8 PERP nc-22	EDF 3 PERP nc-27	222	385	5.6	29	2	18	-68	198	 0.87	

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