

2023 Capitalization Rate Study Telecommunications - Large

Final

Completed: April 28, 2023

Yield Capitalization Rate Conclusion Industry: Telecommunications - Large 2023 Assessment Year

Capital Structure [1] Equity Debt	55.00% 45.00%	
Equity Cost of Capital		Weighting
Capital Asset Pricing Model - Ex Post ^[2]	9.88%	48%
Capital Asset Pricing Model - Ex Ante [2]	8.68%	12%
3 Stage Dividend Discount Model - Dividends [3]	11.10%	20%
3 Stage Dividend Discount Model - Earnings [3]	10.74%	<u>20%</u>
Weighted Average	10.15%	100%
Selected Cost of Equity	10.15%	-
Debt Cost of Capital		Weighting
A - Mergent's - Avg. YTM of A Rated Corporate Bonds [4]	5.12%	20%
Baa - Mergent's - Avg. YTM of Baa Rated Corporate Bonds [4]	5.59%	60%
Ba - Avg. of MTDOR Debt Study, Bloomberg and Capital IQ	7.04%	20%
B - Avg. of MTDOR Debt Study, Bloomberg and Capital IQ	9.15%	<u>0%</u>
Weighted Average	5.79%	100%
Selected Cost of Debt	5.79%	

Weighted Average Cost of Capital (WACC)

Source of	Capital		Marginal Tax	Pre-tax Cost of	After-tax Cost
Capital	Structure	Cost of Capital	Rate	Capital	of Capital
Equity	55.00%	10.15%		5.58%	5.58%
Debt	45.00%	5.79%	24.00%	2.61%	1.98%
WACC	100.00%			8.19%	7.56%
WACC (Round	ded)				7.60%

<u>Notes</u>

- [1] From worksheet: Capital Structure
- [2] From worksheet: Capital Asset Pricing Model Summary
- [3] From worksheet: Yield Equity Summary [4] January 2023, Mergent Bond Record

Direct Capitalization Rate Conclusion Industry: Telecommunications - Large 2023 Assessment Year

Capital Structure [1]

Equity 55.00% Debt 45.00%

Equity Capitalization Rate [2]

NOI After-tax 10.86% GCF 23.45%

Debt Capitalization Rate [3]

Calculated Current Yield 3.92%

NOI After-tax Direct Capitalization Rat

Source of	Capital	Capitalization	Marginal Tax	Pre-tax Capitalization	After-tax Capitalization
Capital	Structure	Rate	Rate	Rate	Rate
Equity	55.00%	10.86%		5.97%	5.97%
Debt	45.00%	3.92%	24.00%	1.76%	1.34%
Total	100.00%			7.74%	7.31%
Total (Rounded)					7.35%

GCF Direct Capitalization Rate

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate
Equity	55.00%	23.45%		12.90%	12.90%
Debt	45.00%	3.92%	24.00%	1.76%	1.34%
WACC	100.00%			14.66%	14.24%
Total (Rounded)					14.25%

Notes:

- [1] From worksheet: Capital Structure
- [2] From worksheet: Direct Equity Summary
- [3] From worksheet: Calculated Current Yield

Selection of Guideline Companies Industry: Telecommunications - Large 2023 Assessment Year

Screening Requirements:

The universe of companies is all companies listed in Value Line under the Cable TV and Telecom Services industries.

Companies were then selected using the following screening criteria:

- 1. Market value of equity above 50 billion USD.
- 2. Incorporated in the United States of America.
- 3. Primarily provides two-way transmission of voice, image, data, or other information over wire, cable, fiber optics, microwave, radio, satellite, or similar facilities.
- 4. No significant merger & acquisition activity during the year.

The Value Line industry groups listed above were analyzed to determine which companies had a market capitalization over 50 billion U.S. dollars at December 31, 2022. Initial analysis revealed seven companies that met this criteria: Comcast Corp. (CMCSA), Charter Communications (CHTR), AT&T Inc. (T), T-Mobile US, Inc. (TMUS), Verizon Communications (VZ), Deutsche Telekom ADR (DTEGY), and America Movil (AMX). Five companies were then verified as incorporated in the United States (all except DTEGY & AMX). The five remaining companies (CHTR, CMCSA, T, TMUS, VZ) were analyzed for significant merger and acquisition activity during the previous year. Finding no disqualifying activity, the five companies were selected for use as guideline public companies in estimating the cost of capital in this study.

Support for Capital Structure Industry: Telecommunications - Large 2023 Assessment Year

(\$ and Shares Outstanding In Millions, Except Per Share Amounts)

Α	В	С	D	E	F	G	н	I	J	K	L	М	N
					End of					Total			
					Year					Common,			i l
					Closing					Preferred, LT			ı l
Ticker		Industry	Financial	Shares	Stock	MV Common	MV Preferred	MV Long Term	PV of Operating	Debt, & Op		%	% Debt &
Symbol	Company	Group	Strength	Outstanding	Price	Stock	Stock	Debt	Leases	Leases	% Common	Preferred	Op Leases
		Value Line	Value Line	10-K	Yahoo	ExF	10-K	10-K	10-K	G+H+I+J	G/K	H/K	(I+J)/K
							Note [1]	Note [2]					i
CHTR	Charter Communic.	CABLETV	B++	153	339.10	51,764	0	82,798	1,378	135,940	38%	0%	62%
CMCSA	Comcast Corp.	CABLETV	A+	4,211	34.97	147,247	0	86,900	6,782	240,929	61%	0%	39%
Т	AT&T Inc.	TELESERV	B++	7,128	18.41	131,219	0	125,207	22,206	278,632	47%	0%	53%
TMUS	T-Mobile US	TELESERV	Α	1,234	140.00	172,754	0	66,730	33,367	272,851	63%	0%	37%
VZ	Verizon Communic.	TELESERV	A++	4,200	39.40	165,475	0	139,041	25,692	330,208	50%	0%	50%
All Comp	anies					668,459	0	500,676	89,425	1,258,560	53%	0%	47%
Averag	е										52%	0%	48%
Median]										50%	0%	50%
High											63%	0%	62%
Low											38%	0%	37%
Selected		•	•	•	•	•	•			•	55%		45%

Notes:

[1] Market value of preferred stock assumed to equal book value

[2] Market value of debt is fair value of long term debt from 10-K notes

MCA 15-1-210, rationale for changes to guideline companies:

2023 - No changes to guideline companies

		Median	
Current Year	50%	0%	50%
Prior Year	53%	0%	47%
2 Years Prior	58%	0%	42%
3 Year Average	54%	0%	46%

Capital Asset Pricing Model (CAPM)
Industry: Telecommunications - Large
2023 Assessment Year

$k_e = R_f + \beta x ERP$

		Ex Post	Ex Ante
K _{e=}	Cost of Equity	9.88%	8.68%
$R_f =$	Risk Free Rate	4.14%	4.14%
β =	Beta	0.80	0.80
ERP =	Equity Risk Premium $(R_m - R_f)$	7.17%	5.68%
$R_m =$	Market Rate of Return	11.31%	9.82%

Risk Free Rate Measures (R_f):

The Value Line Investment Survey: Selection & Opinion ^[1]	
January 6, 2023 Page 1465	
Selected Yields on Taxable U.S. Treasury Securities as of 12/27/22	
10-year	3.84%
30-year	3.93%
U.S. government securities, Treasury constant maturities, Nominal, December 30, 2022	
10-year	3.88%
20-year	4.14%
30-year	3.97%

Notes

- [1] "Value Line Selection & Opinion", Value Line (January 6, 2023)
- [2] https://www.federalreserve.gov/datadownload/Choose.aspx?rel=H.15

Capital Asset Pricing Model (CAPM) Industry: Telecommunications - Large 2023 Assessment Year

$k_e = R_f + \beta x ERP$

Ex Post - Equit	y Risk Premium	Measures	(ERP = Rm - Rf)
	,		\—

Ex Post - Equity Risk Premium Measu	ıres (ERP = Rm - Rf)			
Kroll, 2023 Cost of Capital Navigator				
		$\underline{R_{m}}$	$\underline{R_f}$	<u>ERP</u>
ERP "Historical" - Ex Post	Arithmetic Avg.	11.31%	4.14%	7.17%
ERP "Supply-side" - Ex Post	Arithmetic Avg.	10.49%	4.14%	6.35%
Ex Post Equity Risk Premium Sele	•	11.31%	4.14%	7.17%
Ex Ante - Equity Risk Premium Measu	ures (ERP = Rm - Rf)			
DOR 3 Stage Dividend Growth Model, S	& P 500, See Exhibit			
		R_{m}	$R_{\rm f}$	<u>ERP</u>
ERP - Ex Ante		8.81%	4.14%	4.67%
Kroll, 2023 Cost of Capital Navigator				
		$\underline{R_{m}}$	$\underline{R_f}$	<u>ERP</u>
ERP "Conditional" - Ex Ante		9.50%	3.50%	6.00%
Damodaran Implied ERP (Jan 1, 2023)				
,		$\underline{R}_{\mathtt{m}}$	\underline{R}_{f}	<u>ERP</u>
Implied Premium - Ex Ante - Trailing	12 month, with adjusted payout	8.99%	3.88%	5.11%
Implied Premium - Ex Ante - Trailing	12 month cash yields	9.82%	3.88%	5.94%
Implied Premium - Ex Ante - Average	CF yield last 10 years	9.73%	3.88%	5.85%
Implied Premium - Ex Ante - Net cash	yield	9.56%	3.88%	5.68%
Implied Premium - Ex Ante - Normaliz	ed earnings and payout	8.71%	3.88%	4.83%
		<u>R</u> _m	$\underline{R_f}$	<u>ERP</u>
<u>Average</u>		9.30%		5.44%
<u>Median</u>		9.50%		5.68%
<u>High</u>		9.82%		6.00%
Low		8.71%		4.67%
Ex Ante Equity Risk Premium Sele	ected	9.82%	4.14%	5.68%

Support for Beta Selection in CAPM Industry: Telecommunications - Large 2023 Assessment Year

Α	В	С	D	Е
Ticker		Industry	Financial	
Symbol	Company	Group	Strength	Beta
		Value Line	Value Line	Value Line
CHTR	Charter Communic.	CABLETV	B++	0.95
CMCSA	Comcast Corp.	CABLETV	A+	0.85
T	AT&T Inc.	TELESERV	B++	
TMUS	T-Mobile US	TELESERV	Α	0.80
VZ	Verizon Communic.	TELESERV	A++	0.60
Average				0.80
Median				0.83
Trimmed A	Average			0.83
High				0.95
Low				0.60
Selected				0.80

Inflation & Real Growth
Industry: Telecommunications - Large
2023 Assessment Year

				Nomina	l Growth
Α	В	С	D	E	F
Source Description	Inflation (CPI)	Real Growth (GDP)	Nominal Growth	Low	High
Livingston Survey ^[1]	2.55%	1.97%	4.52%		
Survey of Professional Forecasters ^[2]	2.44%	1.96%	4.40%		
Congressional Budget Office ^[3]	2.30%	1.80%	4.10%		
Average	2.43%	1.91%	4.34%		
Median	2.44%	1.96%	4.40%		
High	2.55%	1.97%	4.52%		
Low	2.30%	1.80%	4.10%		
Selected	2.45%	2.00%	4.45%	4.10%	4.52%

Inflationary Trend	Factors					
Year	Dec. CPI-U Index	Percent Change From Previous	Dec. to Dec. Conversion Factor	Annual Avg. CPI-U Index	Percent Change From Previous	Annual Conversion Factor
	Note [5]	Note [6]	Note [7]	Note [5]	Note [6]	Note [7]
2011	225.672	2.9%	1.3152	224.939	3.1%	1.3010
2012	229.601	1.7%	1.2927	229.594	2.0%	1.2747
2013	233.049	1.5%	1.2735	232.957	1.4%	1.2563
2014	234.812	0.8%	1.2640	236.736	1.6%	1.2362
2015	236.525	0.7%	1.2548	237.017	0.1%	1.2347
2016	241.432	2.0%	1.2293	240.007	1.2%	1.2194
2017	246.524	2.1%	1.2039	245.120	2.1%	1.1939
2018	251.233	1.9%	1.1814	251.107	2.4%	1.1655
2019	256.974	2.2%	1.1550	255.657	1.8%	1.1447
2020	260.474	1.3%	1.1394	258.811	1.2%	1.1308
2021	278.802	6.6%	1.0645	270.970	4.5%	1.0800
2022	296.797	6.1%	1.0000	292.655	7.4%	1.0000

<u>Notes</u>

[1] Federal Reserve Bank of Philadelphia The Livingston Survey December 16, 2023 Table 3 Inflation Rate and Real GDP mean

https://www.philadelphiafed.org/research-and-data/real-time-center/livingston-survey

[2] Federal Reserve Bank of Philadelphia Survey of Professional Forecasters February 10, 2023 Table 8 and Table 9 Average over next 10-Year mean

https://www.philadelphiafed.org/surveys-and-data/real-time-data-research/survey-of-professional-forecasters

[3] The Budget and Economic Outlook: 2023 To 2033, Table B-1

https://www.cbo.gov/about/products/budget-economic-data#4

[5] Historical Consumer Price Index for All Urban Consumers (CPI-U): U.S. city average, all items, index averages (1982-84=100, unless otherwise noted)

https://www.bls.gov/cpi/tables/supplemental-files/historical-cpi-u-202212.pdf

[6] (Row year - Previous Year) / Row Year

[7] Most current year / Row year

3 Stage Dividend Discount Model (DDM) Industry: Telecommunications - Large 2023 Assessment Year

 $k_e = (D_1 / P_0) + g$

k_e = Cost of Equity

D₁ = Expected Dividend

P₀ = Current Price Per Share

g = Sustainable Long-Term Growth

Α	В	С	D	E	F	G	Н	I
		2022	2023 Est		Sustainable	Sustainable	Cost of Equity	Cost of Equity
		Year End Stock	Div'ds Decl'd	Expected Equity	Long-Term	Long-Term	Dividend	Earnings
Ticker	Company	Price	per sh	Payout Yield	Growth Rate [1]	Growth Rate [1]	Growth	Growth
		Yahoo	Value Line	D/C	Dividends	Earnings	E+F	E+G
		P ₀	D ₁	D ₁ /P ₀	g	g	k _e	k _e
CHTR	Charter Communic.	339.10	0.00	0.00%	0.00%	0.00%		
CMCSA	Comcast Corp.	34.97	1.18	3.37%	6.88%	6.63%	10.25%	10.01%
Т	AT&T Inc.	18.41	1.11	6.03%	6.84%	6.71%	12.87%	12.73%
TMUS	T-Mobile US	140.00	0.00	0.00%	0.00%	0.00%		
VZ	Verizon Communic.	39.40	2.64	6.70%	3.48%	2.77%	10.18%	9.47%
Average)						11.10%	10.74%
Median							10.25%	10.01%
High							12.87%	12.73%
Low							10.18%	9.47%
Selected							11.10%	10.74%

Notes Implied Sustainable LTG: 5.73% 5.37%

[1] From worksheet: DDM Sustainable Long-Term Growth

Support for DDM - Short Term Growth Rate Calculations Industry: Telecommunications - Large 2023 Assessment Year

Α	В	С	D	Е	F	G
Ticker	Company	End of Year Closing Stock Price	Div'ds Decl'd per sh 2023 Est ^[1]	Expected Dividend Yield	Div'ds Decl'd per sh 2025-2027 Est ^[1]	Short Term Growth Rate
		Yahoo	Value Line	D/C	Value Line	Note [2]
CHTR	Charter Communic.	339.10	0.00	0.00%	0.00	0.00%
CMCSA	Comcast Corp.	34.97	1.18	3.37%	1.54	9.28%
T	AT&T Inc.	18.41	1.11	6.03%	1.40	8.04%
TMUS	T-Mobile US	140.00	0.00	0.00%	0.00	0.00%
VZ	Verizon Communic.	39.40	2.64	6.70%	2.88	2.94%

Α	В	С	D	E
			Earnings per	
		Earnings per	share	
		share	2025-2027	Short Term
Ticker	Company	2023 Est ^[1]	Est ^[1]	Growth Rate
		Value Line	Value Line	Note [2]
CHTR	Charter Communic.	36.50	54.55	14.33%
CMCSA	Comcast Corp.	3.80	4.90	8.84%
Т	AT&T Inc.	2.75	3.45	7.85%
TMUS	T-Mobile US	7.80	9.00	4.89%
VZ	Verizon Communic.	5.55	5.85	1.77%

<u>Notes</u>

[1] From Value Line Tissue

[2] 4 year compound annual growth rate (CAGR) - 3 periods

Support for DDM - Sustainable Long Term Growth Industry: Telecommunications - Large 2023 Assessment Year

Dividend	Growth Rate		T	T	1	ı	1	ı	Stage 1	1		1	
Ticker	Company	Year End Stock Price	Expected Short-Term Dividend Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield	Internal Rate of Return	Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D_1	D_2	D_3	D_4	D_5
						Ke = IRR of	g = IRR - Div.			_	•		
		Yahoo	Note [1]	Note [2]	D ₁ /P ₀	D ₁ :D ₅₀₀	Yield						
CHTR	Charter Communic.	339.10	0.00%	4.45%	0.00%			(339.10)	0.00	0.00	0.00	0.00	0.00
CMCSA	Comcast Corp.	34.97	9.28%	4.45%	3.37%	10.25%	6.88%	(34.97)	1.18	1.29	1.41	1.54	1.68
T	AT&T Inc.	18.41	8.04%	4.45%	6.03%	12.87%	6.84%	(18.41)	1.11	1.20	1.30	1.40	1.51
TMUS	T-Mobile US	140.00	0.00%	4.45%	0.00%			(140.00)	0.00	0.00	0.00	0.00	0.00
VZ	Verizon Communic.	39.40	2.94%	4.45%	6.70%	10.18%	3.48%	(39.40)	2.64	2.72	2.80	2.88	2.96

Earnings	Growth Rate		Stage 1										
Ticker	Company	Year End Stock Price	Expected Short-Term Earnings Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield	Internal Rate of Return	Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D ₁	D_2	D_3	D₄	D ₅
							g = IRR - Div.		·	_	-		-
		Yahoo	Note [1]	Note [2]	D_1/P_0	D ₁ :D ₅₀₀	Yield						
CHTR	Charter Communic.	339.10	14.33%	4.45%	0.00%			(339.10)	0.00	0.00	0.00	0.00	0.00
CMCSA	Comcast Corp.	34.97	8.84%	4.45%	3.37%	10.01%	6.63%	(34.97)	1.18	1.28	1.40	1.52	1.66
Т	AT&T Inc.	18.41	7.85%	4.45%	6.03%	12.73%	6.71%	(18.41)	1.11	1.20	1.29	1.39	1.50
TMUS	T-Mobile US	140.00	4.89%	4.45%	0.00%			(140.00)	0.00	0.00	0.00	0.00	0.00
VZ	Verizon Communic.	39.40	1.77%	4.45%	6.70%	9.47%	2.77%	(39.40)	2.64	2.69	2.73	2.78	2.83

Notes [1] From worksheet: DDM Short Term Growth Rate Calculations

[2] From worksheet: Inflation & Real Growth

Support for DDM - Sustainable Long Term Growth Industry: Telecommunications - Large 2023 Assessment Year

Dividend	Stage 2															Stage 3		
Ticker	D_{6}	D ₇	D_8	D_9	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
CHTR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
CMCSA	1.83	2.00	2.18	2.37	2.58	2.82	3.07	3.34	3.64	3.97	4.32	4.71	5.13	5.59	6.10	6.37	6.65	7,262,481,252
Т	1.63	1.76	1.90	2.04	2.20	2.37	2.56	2.76	2.97	3.21	3.46	3.73	4.02	4.33	4.67	4.88	5.09	5,563,457,395
TMUS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
VZ	3.05	3.15	3.24	3.34	3.44	3.55	3.66	3.77	3.88	4.00	4.12	4.25	4.38	4.51	4.65	4.86	5.07	5,537,834,891

Earnings	Stage 2															Stage 3		
Ticker	D_6	D ₇	D_8	D_9	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
CHTR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
CMCSA	1.80	1.95	2.12	2.30	2.50	2.71	2.94	3.19	3.47	3.76	4.08	4.43	4.81	5.22	5.67	5.92	6.19	6,755,518,480
Т	1.62	1.74	1.87	2.02	2.17	2.33	2.51	2.70	2.91	3.13	3.37	3.63	3.90	4.20	4.52	4.72	4.93	5,387,774,443
TMUS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
VZ	2.89	2.94	3.00	3.06	3.12	3.18	3.24	3.30	3.37	3.43	3.50	3.57	3.64	3.71	3.78	3.95	4.13	4,506,930,674

Support for Yield Capitalization Rate - Debt Rating Industry: Telecommunications - Large 2023 Assessment Year

Α	В	С	D	E	F
				Moody's	
Ticker		Industry	Financial	Long Term	Yield to
Symbol	Company	Group	Strength	Rating	Maturity
		Value Line	Value Line	Moodys.com	
CHTR	Charter Communic.	CABLETV	B++	Ba2	7.04%
CMCSA	Comcast Corp.	CABLETV	A+	A3	5.12%
Т	AT&T Inc.	TELESERV	B++	Baa2	5.59%
TMUS	T-Mobile US	TELESERV	Α	Baa3	5.59%
VZ	Verizon Communic.	TELESERV	A++	Baa1	5.59%
Averag	е				5.79%
Median	1				5.59%
Trimme	ed Average				5.59%
High					7.04%
Low					5.12%
Selected					5.79%

Support for Direct Capitalization - Equity Capitalization Rates Industry: Telecommunications - Large 2023 Assessment Year

Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N	0	Р	Q	R
		End of											Ke Estimate -				
		Year					Ke	Ke					Cash	Cash			ı İ
		Closing					Estimate -		VL Historic			VL Est	Flow	Flow		Book	1
Ticker		Stock	VL Historic		VL Historic	VL Est P/E	Earnings				VL Historic	P/CF	(Hist.	(Est.	Market Value	Value	1
Symbol	Company	Price	EPS	VL Est EPS	P/E Ratio	Ratio	(Hist. P/E)	(Est. P/E)	Per Share	Per Share	P/CF Ratio	Ratio	P/CF)	P/CF)	of Equity	of Equity	MTBR
		Yahoo	Value Line	Value Line	C/D	C/E	1/F	1/G	Value Line	Value Line	C/J	C/K	1/L	1/M	Price x Shrs	10-K	P/Q
CHTR	Charter Communic.	339.10	30.77	36.50	11.02	9.29	9.07%	10.76%	91.44	107.15	3.71	3.16	26.97%	31.60%	51,764	9,119	5.68
CMCSA	Comcast Corp.	34.97	3.65	3.80	9.58	9.20	10.44%	10.87%	6.58	6.85	5.31	5.11	18.82%	19.59%	147,247	80,944	1.82
Т	AT&T Inc.	18.41	2.64	2.75	6.97	6.69	14.34%	14.94%	6.26	5.55	2.94	3.32	34.00%	30.15%	131,219	166,332	0.79
TMUS	T-Mobile US	140.00	6.19	7.80	22.62	17.95	4.42%	5.57%	17.36	19.35	8.06	7.24	12.40%	13.82%	172,754	69,656	2.48
VZ	Verizon Communic.	39.40	5.17	5.55	7.62	7.10	13.12%	14.09%	9.19	9.15	4.29	4.31	23.32%	23.22%	165,475	81,790	2.02
Averag	e		•		11.56	10.05	10.28%	11.25%			4.86	4.63	23.10%	23.68%			2.56
Median					9.58	9.20	10.44%	10.87%			4.29	4.31	23.32%	23.22%			2.02
Trimme	ed Average				9.41	8.53	10.88%	11.91%			4.44	4.24	23.04%	24.32%			1.42
High					22.62	17.95	14.34%	14.94%			8.06	7.24	34.00%	31.60%			5.68
Low					6.97	6.69	4.42%	5.57%			2.94	3.16	12.40%	13.82%			0.79
Selected					9.1	21	10.8	36%			4.2	6	23.4	5%			2.55

Support for Direct Capitalization Cost of Debt Component - Calculated Current Yield Industry: Telecommunications - Large 2023 Assessment Year

(\$ in Millions)

Α	В	С	D	E	F	G	Н	l	J
		Current Year	Previous Year	Previous Year	Current Year	Current Year	Average	Current Yield	MTBR
Ticker	Company	Interest Exp.	MV LT Debt	BV LT Debt	MV LT Debt	BV LT Debt	MV LT Debt		
		10-K	10-K	10-K	10-K	10-K	(D+F)/2	(C/H)	(F/G)
CHTR	Charter Communic.	4,556	99,641	91,561	82,798	97,603	91,220	4.99%	0.85
CMCSA	Comcast Corp.	3,896	109,300	94,850	86,900	94,811	98,100	3.97%	0.92
T	AT&T Inc.	6,108	201,223	175,631	125,207	135,890	163,215	3.74%	0.92
TMUS	T-Mobile US	3,364	80,905	76,768	66,730	74,491	73,818	4.56%	0.90
VZ	Verizon Communic.	3,613	169,205	150,868	139,041	150,639	154,123	2.34%	0.92
All Companies		21,537			500,676	553,434	580,475	3.71%	0.90
Average							3.92%	0.90	
Median								3.97%	0.92
Trimmed Average							4.09%	0.91	
High State of the Control of the Con							4.99%	0.92	
Low								2.34%	0.85
Selected								3.92%	0.90

Support of Stock Price - From YAHOO Finance Industry: Telecommunications - Large 2023 Assessment Year

		End of Period Closing Stock Price											
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N
Ticker	Company	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
CHTR	Charter Communic.	593.34	601.78	545.52	428.49	506.93	468.53	432.10	412.63	303.35	367.62	391.29	339.10
CMCSA	Comcast Corp.	49.99	46.76	46.82	39.76	44.28	39.24	37.52	36.19	29.33	31.74	36.64	34.97
T	AT&T Inc.	19.26	17.89	17.85	18.86	21.29	20.96	18.78	17.54	15.34	18.23	19.28	18.41
TMUS	T-Mobile US	108.17	123.21	128.35	123.14	133.29	134.54	143.06	143.96	134.17	151.56	151.46	140.00
VZ	Verizon Communic.	53.23	53.67	50.94	46.30	51.29	50.75	46.19	41.81	37.97	37.37	38.98	39.40

