10GX Cables

Key Electrical Attributes – 10GX Bonded-Pair Cable

Frequency (MHz)	Max. Insertion Loss (dB/100 m)		Min. PSNEXT (dB)		Min. PSACR (dB)		Min. PSACRF (dB)		THE BONDED-PAIR ADVANTAGE						Min. PSANEXT (dB)		Min. PSAACRF (dB)	
									Min. Return Loss (dB)*		Min. Balance TCL (dB)*		Min. Balance ELTCTL (dB)*					
	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden
1	2.1	2.1	72.3	73.3	70.2	71.2	64.8	68.8	20.0	20.0	40.0	48.0	35.0	43.0	67.0	67.0	67.0	67.0
4	3.8	3.8	63.3	64.3	59.5	60.5	52.8	56.8	23.0	23.0	40.0	48.0	23.0	31.0	67.0	67.0	66.2	67.2
8	5.3	5.3	58.8	59.8	53.4	54.4	46.7	50.7	24.5	24.5	40.0	48.0	16.9	24.9	67.0	67.0	60.1	61.1
10	5.9	5.9	57.3	58.3	51.4	52.4	44.8	48.8	25.0	25.0	40.0	48.0	15.0	23.0	67.0	67.0	58.2	59.2
16	7.5	7.5	54.2	55.2	46.8	47.8	40.7	44.7	25.0	25.0	38.0	46.0	10.9	18.9	67.0	67.0	54.1	55.1
20	8.4	8.4	52.8	53.8	44.4	45.4	38.8	42.8	25.0	25.0	37.0	45.0	9.0	17.0	67.0	67.0	52.2	53.2
25	9.4	9.4	51.3	52.3	42.0	43.0	36.8	40.8	24.3	25.0	36.0	44.0	7.0	15.0	67.0	67.0	50.2	51.2
31.25	10.5	10.5	49.9	50.9	39.4	40.4	34.9	38.9	23.6	25.0	35.1	43.1	5.1	13.1	67.0	67.0	48.3	49.3
62.5	15.0	15.0	45.4	46.4	30.4	31.4	28.9	32.9	21.5	25.0	32.0	40.0	-	-	65.6	66.6	42.3	43.3
100	19.1	19.1	42.3	43.3	23.2	24.2	24.8	28.8	20.1	25.0	30.0	38.0	-	-	62.5	63.5	38.2	39.2
155	24.1	24.1	39.4	40.4	15.4	16.4	21.0	25.0	18.8	22.8	28.1	36.1	-	-	59.6	60.6	34.4	35.4
200	27.6	27.6	37.8	38.8	10.2	11.2	18.8	22.8	18.0	21.0	27.0	35.0	-	-	58.0	59.0	32.2	33.2
250	31.1	31.1	36.3	37.3	5.3	6.3	16.8	20.8	17.3	20.5	26.0	34.0	-	-	56.5	57.5	30.2	31.2
300	34.3	34.3	35.1	36.1	0.9	1.9	15.3	19.3	16.8	20.1	25.2	33.2	-	-	55.3	56.3	28.7	29.7
350	37.2	37.2	34.1	35.1	-	-	13.9	17.9	16.3	19.8	24.6	32.6	-	-	54.3	55.3	27.3	28.3
400	40.1	40.1	33.3	34.3	-	-	12.8	16.8	15.9	19.5	24.0	32.0	-	-	53.5	54.5	26.2	27.2
450	42.7	42.7	32.5	33.5	-	-	11.7	15.7	15.5	18.9	23.5	31.5	-	-	52.7	53.7	25.1	26.1
500	45.3	45.3	31.8	32.8	-	-	10.8	14.8	15.2	18.4	23.0	31.0	-	-	52.0	53.0	24.2	25.2
550	-	47.7	-	32.2	-	-	-	14.0	-	18.0	-	-	-	-	-	52.4	-	24.4
600	-	50.1	-	31.6	-	-	-	13.2	-	17.6	-	-	-	-	-	51.8	-	23.6
625	-	51.2	-	31.4	-	-	-	12.9	-	17.4	-	-	-	-	-	51.6	-	23.3
750	-	56.7	-	30.2	-	-	-	11.3	-	16.5	-	-	-	-	-	50.4	-	21.7
860	-	61.2	-	29.3	-	-	-	10.1	-	15.8	-	-	-	-	-	49.5	-	20.5

Values above 625 MHz for engineering purposes only.
* Belden's Bonded-Pair Cables provide improved return loss and balance performance.

Key Electrical Attributes – 10GX Nonbonded-Pair Cable

Frequency (MHz)	Max. Insertion Loss (dB/100 m)		Min. PSNEXT (dB)		Min. PSACR (dB)		Min. PSACRF (dB)		Min. Return Loss (dB)		Min. Balance TCL (dB)		Min. Balance ELTCTL (dB)		Min. PSANEXT (dB)		Min. PSAACRF (dB)	
	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden	TIA	Belden
1	2.1	2.1	72.3	73.3	70.2	71.2	64.8	68.8	20.0	20.0	40.0	40.0	35.0	35.0	67.0	67.0	67.0	67.0
4	3.8	3.8	63.3	64.3	59.5	60.5	52.8	56.8	23.0	23.0	40.0	40.0	23.0	23.0	67.0	67.0	66.2	67.2
8	5.3	5.3	58.8	59.8	53.4	54.4	46.7	50.7	24.5	24.5	40.0	40.0	16.9	16.9	67.0	67.0	60.1	61.1
10	5.9	5.9	57.3	58.3	51.4	52.4	44.8	48.8	25.0	25.0	40.0	40.0	15.0	15.0	67.0	67.0	58.2	59.2
16	7.5	7.5	54.2	55.2	46.8	47.8	40.7	44.7	25.0	25.0	38.0	38.0	10.9	10.9	67.0	67.0	54.1	55.1
20	8.4	8.4	52.8	53.8	44.4	45.4	38.8	42.8	25.0	25.0	37.0	37.0	9.0	9.0	67.0	67.0	52.2	53.2
25	9.4	9.4	51.3	52.3	42.0	43.0	36.8	40.8	24.3	24.3	36.0	36.0	7.0	7.0	67.0	67.0	50.2	51.2
31.25	10.5	10.5	49.9	50.9	39.4	40.4	34.9	38.9	23.6	23.6	35.1	35.1	5.1	5.1	67.0	67.0	48.3	49.3
62.5	15.0	15.0	45.4	46.4	30.4	31.4	28.9	32.9	21.5	21.5	32.0	32.0	-	-	65.6	66.6	42.3	43.3
100	19.1	19.1	42.3	43.3	23.2	24.2	24.8	28.8	20.1	20.1	30.0	30.0	-	-	62.5	63.5	38.2	39.2
155	24.1	24.1	39.4	40.4	15.4	16.4	21.0	25.0	18.8	18.8	28.1	28.1	-	-	59.6	60.6	34.4	35.4
200	27.6	27.6	37.8	38.8	10.2	11.2	18.8	22.8	18.0	18.0	27.0	27.0	-	-	58.0	59.0	32.2	33.2
250	31.1	31.1	36.3	37.3	5.3	6.3	16.8	20.8	17.3	17.3	26.0	26.0	-	-	56.5	57.5	30.2	31.2
300	34.3	34.3	35.1	36.1	0.9	1.9	15.3	19.3	16.8	16.8	25.2	25.2	-	-	55.3	56.3	28.7	29.7
350	37.2	37.2	34.1	35.1	-	-	13.9	17.9	16.3	16.3	24.6	24.6	-	-	54.3	55.3	27.3	28.3
400	40.1	40.1	33.3	34.3	-	-	12.8	16.8	15.9	15.9	24.0	24.0	-	-	53.5	54.5	26.2	27.2
450	42.7	42.7	32.5	33.5	-	-	11.7	15.7	15.5	15.5	23.5	23.5	-	-	52.7	53.7	25.1	26.1
500	45.3	45.3	31.8	32.8	-	-	10.8	14.8	15.2	15.2	23.0	23.0	-	-	52.0	53.0	24.2	25.2
550	-	47.7	-	32.2	-	-	-	14.0	-	14.9	-	-	-	-	-	52.4	-	24.4
600	-	50.1	-	31.6	-	-	-	13.2	-	14.7	-	-	-	-	-	51.8	-	23.6
625	-	51.2	-	31.4	-	-	-	12.9	-	14.5	-	-	-	-	-	51.6	-	23.3
750	-	56.7	-	30.2	-	-	-	11.3	-	14.0	-	-	-	-	-	50.4	-	21.7
860	-	61.2	-	29.3	-	-	-	10.1	-	13.6	-	-	-	-	-	49.5	-	20.5

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