

IEEE 802.5; ISO/IEC 8802.5**IBM Cabling System****Types 1A and 1**

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Maximum Attenuation		Min. NEXT	
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m		(dB/ 1000')	(dB/ 100m)	(dB/ 3280')	(dB/ 1000m)

IBM Type 1A • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

IBM Part No.	9688	NEC:	2	500 [†]	152.4	26.5	12.0	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748		CMG		1000 [†]	304.8	50.0	22.7	x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G2772		CEC:		2000 [†]	609.8	102.0	46.3	.431	10.95	BC	Each Pair				100	37.5	12.3	38.5	38.5
		CMG		3600 [†]	1097.6	190.8	86.5			.026"	+ 65%				300	65.2	21.4	31.3	31.3
										16.7Ω/M'	TC Braid				100 ^{††}	40.8	13.4	—	—
										54.7Ω/km	Overall				300 ^{††}	71.0	23.3	—	—
															600 ^{††}	100.3	32.9	—	—



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.
 IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Non-suffix "A" Type IBM Product, see 1634A below.

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket

IBM Part No.	82688	NEC:	2	1000 [†]	304.8	47.0	21.4	.248	6.30	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716749		CMP						x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G8220		CEC:						.348	8.84	BC	Each Pair				100	37.5	12.3	38.5	38.5
		CMP								.026"	+ 65%				300	65.2	21.4	31.3	31.3
										16.7Ω/M'	TC Braid				100 ^{††}	40.8	13.4	—	—
										54.7Ω/km	Overall				300 ^{††}	71.0	23.3	—	—
															600 ^{††}	100.3	32.9	—	—



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified.
 IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

IBM Type 1 • 22 AWG Solid BC Conductors • Each Pair Individually Beldfoil Shielded + Overall TC Braid Shield (65% Coverage) • Rip Cord**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

IBM Part No.	1634A	NEC:	2	1000 [†]	304.8	50.0	22.7	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748		CMG		2000 [†]	609.8	102.0	46.4	x	x	(solid)	Beldfoil				16	13.4	4.4	40.0	40.0
		CEC:		3600 [†]	1097.6	190.8	86.7	.431	10.95	BC	Each Pair								
		CMG								.026"	+ 65%								
										17.4Ω/M'	TC Braid								
										57.1Ω/km	Overall								



Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.
 IBM qualified Type 1 Media cable for use in IBM Cabling Systems. For Suffix A counterpart see 9688 above.

DCR = DC Resistance • BC = Bare Copper • NEXT = Near-end Crosstalk • TC = Tinned Copper

* Capacitance between conductors

† Spools are one piece, but length may vary ±10% from length shown.

†† Common mode

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Teflon is a DuPont trademark.

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IEEE 802.5; ISO/IEC 8802.5

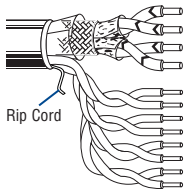
IBM Cabling System

Types 2A and 6A

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Maximum Attenuation		Min. NEXT	
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m		(dB/ 1000')	(dB/ 100m)	(dB/ 3280')	(dB/ 1000m)

IBM Type 2A • 22 AWG Solid Bare Copper Conductors • Each Pair Individually Beldfoil® Shielded + Overall TC Braid Shield (65% Coverage)**Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket**

IBM Part No. 9689	NEC: 6*	1000 [†]	304.8	80.0	36.4	.324	8.23	22	100%	150	8.5	27.9	1k**	.390	.128	—	—	—	—
4716739	CMG	3600 [†]	1097.6	298.8	135.8	x	x	(solid)	Beldfoil	@ 1MHz	(data)	(data)	4	6.7	2.2	58.0	58.0	58.0	58.0
33G2773	CEC: CMG					.466	11.84	BC	Each Pair	(data)			16	13.4	4.4	50.4	50.4	50.4	50.4
								.026"	+ 65%	600			100	37.5	12.3	38.5	38.5	38.5	38.5
								16.7Ω/M'	TC Braid	@ 1kHz			300	65.2	21.4	31.3	31.3	31.3	31.3
								54.7Ω/km	Overall	(voice)			100 ^{††}	40.8	13.4	—	—	—	—
									(data only)				300 ^{††}	71.0	23.3	—	—	—	—
													600 ^{††}	100.3	32.9	—	—	—	—

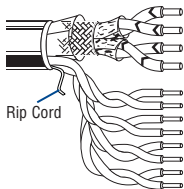


For Plenum version of 9689, see 82689.

IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket

IBM Part No. 82689	NEC: 6*	1000 [†]	304.8	79.0	35.9	.324	8.23	22	100%	150	8.5	27.9	1k**	.390	.128	—	—	—	—
4716738	CMP					x	x	(solid)	Beldfoil	@ 1MHz	(data)	(data)	4	6.7	2.2	58.0	58.0	58.0	58.0
33G8221	CEC: CMP					.460	11.68	BC	Each Pair	(data)			16	13.4	4.4	50.4	50.4	50.4	50.4
								.026"	+ 65%	600			100	37.5	12.3	38.5	38.5	38.5	38.5
								16.7Ω/M'	TC Braid	@ 1kHz			300	65.2	21.4	31.3	31.3	31.3	31.3
								54.7Ω/km	Overall	(voice)			100 ^{††}	40.8	13.4	—	—	—	—
									(data only)				300 ^{††}	71.0	23.3	—	—	—	—
													600 ^{††}	100.3	32.9	—	—	—	—



IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

IBM Type 6A • 26 AWG Stranded (7x34) BC Conductors • Twisted Pairs • Beldfoil Shielded Pairs + Overall TC Braid Shield (65% Coverage)**Non-Plenum • Datalene® Insulation • Striated Black PVC Jacket**

IBM Part No. 1215A	NEC: 2	1000 [†]	304.8	46.0	20.9	.325	8.26	26	100%	150	8.5	27.9	4	10	3.3	52.0	52.0	52.0	52.0
4716743	CL2, CM							(7x34)	Beldfoil				16	20	6.6	44.0	44.0	44.0	44.0
33G2775	CEC: CM							BC	Each Pair				100	57	18.7	33.0	33.0	33.0	33.0
								.019"	+ 65%	300			300	100	32.3	25.0	25.0	25.0	25.0
								38.7Ω/M'	TC Braid										
								127.0Ω/km	Overall										



IBM qualified Type 6A Office cable for use in IBM Cabling Systems.

BC = Bare Copper • DCR = DC Resistance • NEXT = Near-end Crosstalk • TC = Tinned Copper

* Capacitance between conductors

**Voice pairs (1 kHz); Data pairs (4–600 MHz)

† Spools are one piece, but length may vary ±10% from length shown.

†† Common mode

^ (2) shielded Data-grade pairs; (4) unshielded Voice-grade media pairs

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Teflon is a DuPont trademark.

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For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

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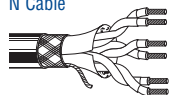
IBM RISC System/6000

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs/ Cond.	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

28 AWG Stranded (7x36) Bare Copper Conductors • Twisted Pairs • Overall Beldfoil® Shielded + TC Braid Shield (65% Coverage) • TC Drain Wire

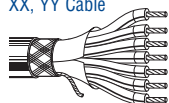
Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket (See RISC Color Code Chart below)

IBM Part No. N Cable	1538A	NEC: CL2	3	U-1000 1000	U-304.8 304.8	24.0 25.0	10.9 11.4	.225	5.72	28 (7x36) Bare Copper 63.0Ω/M' 207.0Ω/km	Overall Beldfoil + 65% TC Braid 5.5Ω/M' 18.0Ω/km	120	12.0	39.4	21.5	70.5
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RJ-45 compatible

IBM Part No. XX, YY Cable	1540A	NEC: CL2	7/c	U-1000 1000	U-304.8 304.8	21.0 21.0	9.5 9.5	.190	4.83	28 (7x36) Bare Copper 63.0Ω/M' 207.0Ω/km	Overall Beldfoil + 65% TC Braid 7.2Ω/M' 23.6Ω/km	—	12.5	41.0	23.0	75.5
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RJ-45 compatible

DC = DC Resistance • TC = Tinned Copper

* Capacitance between conductors

** Capacitance between one conductor and other conductors connected to shield

Color Codes: IBM RISC System/6000

Cond.	Color	Pair No.	Color Combination
1st	White over Blue	1	White over Blue & Blue over White
2nd	White over Orange	2	White over Orange & Orange over White
3rd	White over Green	3	White over Green & Green over White
4th	White over Brown		
5th	White over Gray		
6th	White over Red		
7th	White over Yellow		