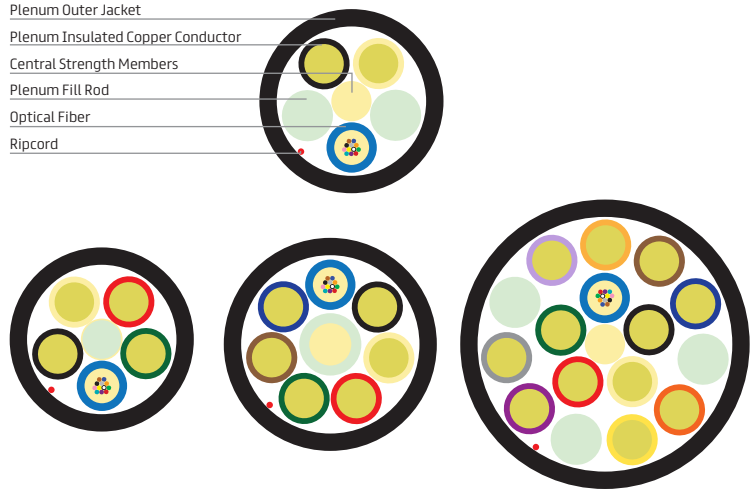


GenSPEED® Fiber-Copper Hybrid Cable

Distributed Antenna System (DAS) Applications

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CROSS SECTION



OVERVIEW

GenSPEED's indoor-outdoor plenum hybrid cable designs facilitate power and data solutions for IP devices. These cables incorporate either 12, 14 or 16 AWG copper conductors for remote powering with a central loose tube fiber subunit for data transmission. The overall installation burden is reduced by integrating these two vital network functions into a common cable sheath.

These cables combine a robust, flame retardant jacket material with our extensive portfolio of single-mode and multimode optical fibers. Because of its application diversity, this advanced product eliminates the necessity/expense for traditional cable transition points once required in legacy systems. This product is ideal for stadiums, DAS applications, campus environments, airports, parking garages and more.

SPECIFICATIONS & RATINGS

Application	Versatile indoor-outdoor plenum rated cable offers solutions for power and data for IP devices.
Construction	Hybrid
Conductors	2, 4, 6, & 12 Conductor 12AWG, 14AWG and 16AWG
Flame Rating	Plenum CL3P-OF, CMP-OF and FBLP-OF
Fiber Count	2, 4, 6 and 12 Fiber
Fiber Types	Single-mode (ESMF, bend-insensitive) Multimode (50/125 OM4)
Standards	TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, ANSI/ICEA S-120-742, Telcordia GR-20, CE RoHS Compliant, UL13, UL1424 and UL 444 (16AWG only)
Registered Supplier	ISO 9001, ISO 14001, TL 9000 and OHSAS 18001

FEATURES & BENEFITS

- Integrates copper power conductors with bend-insensitive optical fibers under a common sheath
- Plenum flame listing enables unrestricted routing within available pathways
- Facilitates placement of security remote units within buildings
- Fiber identification using TIA standardized color coding
- Flame-retardant and plenum compliant meeting NFPA-262
- Available with bend-insensitive single-mode and multimode optical fibers
- Will support all high performance networks including OM4/10 gigabit ethernet systems

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GenSPEED® Fiber-Copper Hybrid Cable

Distributed Antenna System (DAS) Applications

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Hybrid Plenum Cable (Indoor/Outdoor) – G.657.A2 Singlemode 12 AWG

Part Number	Cable Weight 1000'		Jacket Outer Diameter		Fiber Outer Diameter		Fiber Count	Conductor Count	AWG Size	Bend Radius LOAD		Bend Radius No LOAD	
	lb/kft	kg/km	Inches	mm	Inches	mm				Inches	cm	Inches	cm
DAS021202BXP	125	186	0.426	10.8	0.118	3.0	2	2	12	17	43.2	8.5	21.6
DAS041202BXP	165	146	0.426	10.8	0.118	3.0	2	4	12	17	43.2	8.5	21.6
DAS061202BXP	215	320	0.449	11.4	0.118	3.0	2	6	12	18	45.7	9	22.9
DAS121202BXP	385	573	0.557	14.1	0.118	3.0	2	12	12	22	55.9	11	27.9
DAS021206BXP	125	186	0.426	10.8	0.118	3.0	6	2	12	17	43.2	8.5	21.6
DAS041206BXP	165	246	0.426	10.8	0.118	3.0	6	4	12	17	43.2	8.5	21.6
DAS061206BXP	215	320	0.449	11.4	0.118	3.0	6	6	12	18	45.7	9	22.9
DAS121206BXP	385	573	0.557	14.1	0.118	3.0	6	12	12	22	55.9	11	27.9
DAS021212BXP	125	186	0.426	10.8	0.118	3.0	12	2	12	17	43.2	8.5	21.6
DAS041212BXP	165	246	0.426	10.8	0.118	3.0	12	4	12	17	43.2	8.5	21.6
DAS061212BXP	215	320	0.449	11.4	0.118	3.0	12	6	12	18	45.7	9	22.9
DAS121212BXP	385	573	0.557	14.1	0.118	3.0	12	12	12	22	55.9	11	27.9

Hybrid Plenum Cable (Indoor/Outdoor) – G.657.A2 Singlemode 14 AWG

Part Number	Cable Weight 1000'		Jacket Outer Diameter		Fiber Outer Diameter		Fiber Count	Conductor Count	AWG Size	Bend Radius LOAD		Bend Radius No LOAD	
	lb/kft	kg/km	Inches	mm	Inches	mm				Inches	cm	Inches	cm
DAS021402BXP	100	149	0.339	8.6	0.098	2.5	2	2	14	13	33.0	6.5	16.5
DAS041402BXP	120	179	0.339	8.6	0.098	2.5	2	4	14	13	33.0	6.5	16.5
DAS061402BXP	150	223	0.394	10.0	0.098	2.5	2	6	14	15	38.1	7.5	19.1
DAS121402BXP	265	394	0.535	13.6	0.098	2.5	2	12	14	21	53.3	10.5	26.7
DAS021406BXP	100	149	0.339	8.6	0.098	2.5	6	2	14	13	33.0	6.5	16.5
DAS041406BXP	120	179	0.339	8.6	0.098	2.5	6	4	14	13	33.0	6.5	16.5
DAS061406BXP	150	223	0.394	10.0	0.098	2.5	6	6	14	15	38.1	7.5	19.1
DAS121406BXP	265	394	0.535	13.6	0.098	2.5	6	12	14	21	53.3	10.5	26.7
DAS021412BXP	100	149	0.339	8.6	0.098	2.5	12	2	14	13	33.0	6.5	16.5
DAS041412BXP	120	179	0.339	8.6	0.098	2.5	12	4	14	13	33.0	6.5	16.5
DAS061412BXP	150	223	0.394	10.0	0.098	2.5	12	6	14	15	38.1	7.5	19.1
DAS121412BXP	265	394	0.535	13.6	0.098	2.5	12	12	14	21	53.3	10.5	26.7

Hybrid Plenum Cable (Indoor/Outdoor) – G.657.A2 Singlemode 16 AWG

Part Number	Cable Weight 1000'		Jacket Outer Diameter		Fiber Outer Diameter		Fiber Count	Conductor Count	AWG Size	Bend Radius LOAD		Bend Radius No LOAD	
	lb/kft	kg/km	Inches	mm	Inches	mm				Inches	cm	Inches	cm
DAS021602BXP	80	119	0.281	7.1	0.078	2.0	2	2	16	11	27.9	5.5	14.0
DAS041602BXP	90	134	0.281	7.1	0.078	2.0	2	4	16	11	27.9	5.5	14.0
DAS061602BXP	115	171	0.336	8.5	0.078	2.0	2	6	16	13	33.0	6.5	16.5
DAS121602BXP	200	298	0.441	11.2	0.078	2.0	2	12	16	18	45.7	9	22.9
DAS021606BXP	80	119	0.281	7.1	0.078	2.0	6	2	16	11	27.9	5.5	14.0
DAS041606BXP	90	134	0.281	7.1	0.078	2.0	6	4	16	11	27.9	5.5	14.0
DAS061606BXP	115	171	0.336	8.5	0.078	2.0	6	6	16	13	33.0	6.5	16.5
DAS121606BXP	200	298	0.441	11.2	0.078	2.0	6	12	16	18	45.7	9	22.9
DAS021612BXP	80	119	0.281	7.1	0.078	2.0	12	2	16	11	27.9	5.5	14.0
DAS041612BXP	90	134	0.281	7.1	0.078	2.0	12	4	16	11	27.9	5.5	14.0
DAS061612BXP	115	171	0.336	8.5	0.078	2.0	12	6	16	13	33.0	6.5	16.5
DAS121612BXP	200	298	0.441	11.2	0.078	2.0	12	12	16	18	45.7	9	22.9

Mechanical Specifications

Maximum installation load: 100 lbf (445 N)
 Maximum operation load: 30 lbf (133 N)

Temperature Range

Shipping and Storage: -40° F to +158° F (-40° C to +70° C)
 Installation: +32° F to +140° F (0° C to +60° C)
 Operation: -32° F to +158° F (0° C to +70° C)

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GenSPEED® Fiber-Copper Hybrid Cable

Distributed Antenna System (DAS) Applications

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Hybrid Plenum Cable (Indoor/Outdoor) CL3P – OM4 Multimode 12 AWG

Part Number	Cable Weight 1000'		Jacket Outer Diameter		Fiber Outer Diameter		Fiber Count	Conductor Count	AWG Size	Bend Radius LOAD		Bend Radius No LOAD	
	lb/kft	kg/km	Inches	mm	Inches	mm				Inches	cm	Inches	cm
DAS021202G4P	125	186	0.426	10.8	0.118	3.0	2	2	12	17	43.2	8.5	21.6
DAS041202G4P	165	146	0.426	10.8	0.118	3.0	2	4	12	17	43.2	8.5	21.6
DAS061202G4P	215	320	0.449	11.4	0.118	3.0	2	6	12	18	45.7	9	22.9
DAS121202G4P	385	573	0.557	14.1	0.118	3.0	2	12	12	22	55.9	11	27.9
DAS021206G4P	125	186	0.426	10.8	0.118	3.0	6	2	12	17	43.2	8.5	21.6
DAS041206G4P	165	246	0.426	10.8	0.118	3.0	6	4	12	17	43.2	8.5	21.6
DAS061206G4P	215	320	0.449	11.4	0.118	3.0	6	6	12	18	45.7	9	22.9
DAS121206G4P	385	573	0.557	14.1	0.118	3.0	6	12	12	22	55.9	11	27.9
DAS021212G4P	125	186	0.426	10.8	0.118	3.0	12	2	12	17	43.2	8.5	21.6
DAS041212G4P	165	246	0.426	10.8	0.118	3.0	12	4	12	17	43.2	8.5	21.6
DAS061212G4P	215	320	0.449	11.4	0.118	3.0	12	6	12	18	45.7	9	22.9
DAS121212G4P	385	573	0.557	14.1	0.118	3.0	12	12	12	22	55.9	11	27.9

Hybrid Plenum Cable (Indoor/Outdoor) CL3P – OM4 Multimode 14 AWG

Part Number	Cable Weight 1000'		Jacket Outer Diameter		Fiber Outer Diameter		Fiber Count	Conductor Count	AWG Size	Bend Radius LOAD		Bend Radius No LOAD	
	lb/kft	kg/km	Inches	mm	Inches	mm				Inches	cm	Inches	cm
DAS021402G4P	100	149	0.339	8.6	0.098	2.5	2	2	14	13	33.0	6.5	16.5
DAS041402G4P	120	179	0.339	8.6	0.098	2.5	2	4	14	13	33.0	6.5	16.5
DAS061402G4P	150	223	0.394	10.0	0.098	2.5	2	6	14	15	38.1	7.5	19.1
DAS121402G4P	265	394	0.535	13.6	0.098	2.5	2	12	14	21	53.3	10.5	26.7
DAS021406G4P	100	149	0.339	8.6	0.098	2.5	6	2	14	13	33.0	6.5	16.5
DAS041406G4P	120	179	0.339	8.6	0.098	2.5	6	4	14	13	33.0	6.5	16.5
DAS061406G4P	150	223	0.394	10.0	0.098	2.5	6	6	14	15	38.1	7.5	19.1
DAS121406G4P	265	394	0.535	13.6	0.098	2.5	6	12	14	21	53.3	10.5	26.7
DAS021412G4P	100	149	0.339	8.6	0.098	2.5	12	2	14	13	33.0	6.5	16.5
DAS041412G4P	120	179	0.339	8.6	0.098	2.5	12	4	14	13	33.0	6.5	16.5
DAS061412G4P	150	223	0.394	10.0	0.098	2.5	12	6	14	15	38.1	7.5	19.1
DAS121412G4P	265	394	0.535	13.6	0.098	2.5	12	12	14	21	53.3	10.5	26.7

Hybrid Plenum Cable (Indoor/Outdoor) – OM4 Multimode 16 AWG

Part Number	Cable Weight 1000'		Jacket Outer Diameter		Fiber Outer Diameter		Fiber Count	Conductor Count	AWG Size	Bend Radius LOAD		Bend Radius No LOAD	
	lb/kft	kg/km	Inches	mm	Inches	mm				Inches	cm	Inches	cm
DAS021602G4P	80	119	0.281	7.1	0.078	2.0	2	2	16	11	27.9	5.5	14.0
DAS041602G4P	90	134	0.281	7.1	0.078	2.0	2	4	16	11	27.9	5.5	14.0
DAS061602G4P	115	171	0.336	8.5	0.078	2.0	2	6	16	13	33.0	6.5	16.5
DAS121602G4P	200	298	0.441	11.2	0.078	2.0	2	12	16	18	45.7	9	22.9
DAS021606G4P	80	119	0.281	7.1	0.078	2.0	6	2	16	11	27.9	5.5	14.0
DAS041606G4P	90	134	0.281	7.1	0.078	2.0	6	4	16	11	27.9	5.5	14.0
DAS061606G4P	115	171	0.336	8.5	0.078	2.0	6	6	16	13	33.0	6.5	16.5
DAS121606G4P	200	298	0.441	11.2	0.078	2.0	6	12	16	18	45.7	9	22.9
DAS021612G4P	80	119	0.281	7.1	0.078	2.0	12	2	16	11	27.9	5.5	14.0
DAS041612G4P	90	134	0.281	7.1	0.078	2.0	12	4	16	11	27.9	5.5	14.0
DAS061612G4P	115	171	0.336	8.5	0.078	2.0	12	6	16	13	33.0	6.5	16.5
DAS121612G4P	200	298	0.441	11.2	0.078	2.0	12	12	16	18	45.7	9	22.9

Mechanical Specifications

Maximum installation load: 100 lbf (445 N)
 Maximum operation load: 30 lbf (133 N)

Temperature Range

Shipping and Storage: -40° F to +158° F (-40° C to +70° C)
 Installation: +32° F to +140° F (0° C to +60° C)
 Operation: -32° F to +158° F (0° C to +70° C)

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