

HUGHES NETWORK SYSTEMS

FIELD SERVICE BULLETIN

SUBJECT: IFL Cable, Approved List (with lengths) for DW7x00, DW60xx, and DW40xx Domestic Installations

FSB NUMBER: FSB_060316_01B
FSB ISSUE DATE: 10/19/07

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APPROVED BY: D. Dostalík

CHANGE TO BE IMPLEMENTED BY:
AUTHORIZED HUGHES REPRESENTATIVE **CUSTOMER**

DOCUMENTATION AFFECTED:
 Installation Specifications

CATEGORY:
HARDWARE **FIRMWARE** **SOFTWARE** **OTHER**

EFFECTIVE DATE:

- IMPLEMENT:** **IMMEDIATELY**
- NEXT SERVICE CALL**
- OTHER - October 19, 2007**

COMMENTS:

Hughes is standardizing the IFL cable type and maximum acceptable cable lengths to ensure optimum equipment operation and increase customer reliability. This Field Service Bulletin supersedes all cable type and length information contained in any installation specification published prior to the FSB effective date shown above.

Use this in conjunction with these FSBs:

- FSB_051019_01 - Measuring IFL Cable DC Loop Resistance on HNS Broadband/DirecWay systems
- FSB_050518_01 - HNS Broadband requirements for RG-6 and RG-11 IFL cable connectors, ground blocks and ground block location

REMOVED MATERIAL DISPOSITION

SHIP TO N/A
ATTENTION N/A
COMMENTS N/A

How to use this FSB

1. Select the appropriate table based on symbol rate. Use Table 2 for symbol rates of 5 Msps or greater. Use Table 3 for symbol rates less than 5 Msps.
Note: all sites commissioned on the National NOC have symbol rates of 5 Msps or greater – use Table 2.
2. Select Column A or Column B based on the RFU type .Use Column A for 1 watt RFUs. Use Column B for 2 watt RFUs (refer to Table 1).
3. Determine the maximum allowable IFL cable length based on the Vendor Part Number shown in the left column.

Table 1. RFU Part Numbers

1 Watt RFU	2 Watt RFU
1029514-xxxx Chinon	1033505-xxxx Pure Isis
1032009-xxxx Pure Isis	1035817-xxxx Pure Orisis
1035007-xxxx Pure Osris	1033506-xxxx Isis TG2
1032552-xxxx Isis TG2	1035818-xxxx Orisis TG2
1035008-xxxx Osiris TG2	1500172-0202 Pure Anubis
1025901-xxxx Tigris, 0.5 or 1.0 W series	1500192-0221 Anubis TG
1500172-2101 Pure Anubis	
1500192-0111 Anubis TG	

Refer to Table 2 or Table 3 to determine the appropriate cables (based on symbol rate) to use for systems installed in CONUS, HI, AK, VI, PR, and Canada.

Table 2. Cables for use with domestic satellites with rates 5 Msps and greater

Vendor Part Number	Column A Max length (in feet) 1-watt RFU	Column B Max length (in feet) 2-watt RFU	Plenum
RG6 Cable			
Commscope 5781	276	276	no
Commscope 5781 / Dual 5782	276	276	no
Commscope 5729	276	276	no
Commscope 5773	276	276	no
Commscope 2229V	213	213	yes
Commscope 2229K	213	213	yes
Commscope 0132K or 0132V	144	120	yes
Laser LSC741 (RS&I)	257	222	no
Laser LSC751 (RS&I) Dual LSC741	257	222	no
Summit 7200 (RS&I)	233	194	no
Perfect 10 ULPVRG6SCBLK	219	182	no
Perfect 10 ULPVRG6SCDUAL	219	182	no
Perfect 10 ULPVRG6SCQUAD	277	231	no
Perfect 10 ULPVRG6SCDLQD	277	231	no
P7200BX-PB-1000 (Black)	249	249	no
P7200BX-WB-1000 (White)	249	249	no
P7400BX-PB-500 (Dual 7200 Black)	249	249	no
P7600BX-PB-500 (P7400 w/17 awg messenger)	249	249	no
Vextra V621	276	259	no
Vextra V2621	276	259	no
Vextra V2621GW	276	259	no
Belden 1829AC	249	249	no
Belden 1841AC	249	249	no
1029265-0001	250	250	no
1029265-0002	213	213	yes
RG11 Cable			
Commscope 5906 / RG11	393	393	no
Commscope 2287K / RG11	310	302	yes
1010807-0001	98	98	yes
1010810-0001	104	104	no
1010809-0001	296	296	yes
1010812-0001	414	414	no
Helix Cable			
LDF4-75A	796	796	no
FDF4RN-75A	796	796	fire retardant

Table 3. Cables for use with domestic satellites with rates less than 5 Mps

Vendor Part Number	Column A Max length (in feet) 1-watt RFU	Column B Max length (in feet) 2-watt RFU	Plenum
RG6 Cable			
Commscope 5781	276	276	no
Commscope 5781 / Dual 5782	276	276	no
Commscope 5729	276	238	no
Commscope 5773	276	222	no
Commscope 0132K or 0132V	120	96	yes
Laser LSC741 (RS&I)	222	177	no
Laser LSC751 (RS&I) Dual LSC741	222	177	no
Perfect 10 ULPVRG6SCBLK	182	146	no
Perfect 10 ULPVRG6SCDUAL	182	146	no
Perfect 10 ULPVRG6SCQUAD	230	184	no
Perfect 10 ULPVRG6SCDLQD	230	184	no
Vextra V621	259	207	no
Vextra V2621	259	207	no
Vextra V2621GW	259	207	no
Belden 1829AC	249	234	no
Belden 1841AC	249	234	no
RG11 Cable			
Commscope 5906 / RG11	393	393	no
Commscope 2287K / RG11	302	242	yes
1010807-0001	98	98	yes
1010810-0001	104	104	no
1010809-0001	296	296	yes
1010812-0001	414	414	no
Helix Cable			
LDF4-75A	796	796	no
FDF4RN-75A	796	796	fire retardant