

Selecting the type of Fibre Optic Cable is Right for your Application

Application	Patch Cords	IOR or Tight Buffered (Dielectric)	Loose Tube (Dielectric)	Loose Tube (Armoured)	Tight Buffered (Armoured)	ADSS
Direct Connection to Equipment in Same Room or Cabinet ^{1,2}	X	X				
Terminated by Patch Panel ²		X	X ⁴			
Terminated By Splice Enclosure	X ⁵	X	X	X	X	X
Between Offices, Intrabuilding ²	X	X				
Between Buildings, Interbuilding			X	X		X
Inside Industrial Plant ²		X	X	X	X	
High Vertical Rises		X				
Aerial Interbuilding			X ⁶			X
Underground in Ducts		X	X	X		
Underground Directly Buried				X		
Under Water			X ³	X ³		
Near High Voltage		X	X			X

¹ Patch cords should be placed in a dedicated tray or conduit when run outside of an equipment.

² Fire-rated cable should always be used.

³ Some loose tube cable manufacturers permit cable placement in shallow water. Consult the cable manufacturer for details. Otherwise, special submarine cable is necessary.

⁴ Under some circumstances (where a splice tray or patch tray is deployed).

⁵ Under some circumstances (where pigtails fit this category).

⁶ Requires conduit or UV jacket rating

