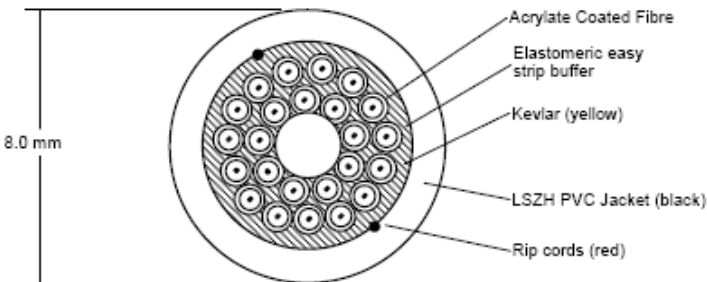


Chorus Tie Cable Specification

Intended Audience	Chorus Customers
Purpose of Document	The purpose of this document is to provide details on Tie Cable specifications.

Copper Cable	Application
Category 3 Suitable for indoor backbone LAN cabling	<ul style="list-style-type: none"> • Voice • T1 • 4Mbps Token Ring (IEEE 802.5) • 10 Base-T (IEEE 802.3) • 52 Mbps ATM • 100 Base VG-AnyLAN
Compliances	<ul style="list-style-type: none"> • AS/NZS 3080 2003 (Cat3) • UL Listed Type CMR • ANSI/TIA/EIA 568-B.2 (Cat3) • ISO/IEC 11801 Ed.2 (Cat3)
Conductor	Plain Annealed Copper Wire (24 AWG)
Insulation	Flame Retardant PVC
Colour Code	Band marked to ANSI / ICEA S-80-576. 50, 100 and 200 pair cables are constructed with 25 pair subunits and coloured whipping.
Sheath	Flame Retardant PVC qualified to be used as a riser cable

Fibre Cable Single Mode	Application
Distribution Series (D Series)	Multi-fibre D-Series cable is suitable for use as Internal building cable & outside plant applications including; <ul style="list-style-type: none"> • aerial • direct burial • duct installation Typically suitable for use as customer lead-in cable, cable well sheath change situations, building risers, tie cables and pre-connectorised Pig Cables. The cable is UL listed riser rated OFNR in accordance with National Electrical Code Article 770-51(b) and 770-53(b).

Fibre Cable Single Mode	Application
Example cable make up	 <p>8.0 mm</p> <ul style="list-style-type: none"> Acrylate Coated Fibre Elastomeric easy strip buffer Kevlar (yellow) LSZH PVC Jacket (black) Rip cords (red)
Optical Fibre Specification	<ul style="list-style-type: none"> • Single mode conforming to ITU-T G.652 series • Numerical aperture : 0.13
Core, Cladding & Jacket	<ul style="list-style-type: none"> • Core/Cladding diameter : 8.3/125 micron • Primary coating diameter : 245 micron • Secondary buffer diameter : 900 micron
Colour Code	<ul style="list-style-type: none"> • The outer jacket shall be Black. • The 900µm buffers shall be in accordance with the Standard Colour Code System, blue, orange, green, etc
Outer Jacket	<ul style="list-style-type: none"> • Flexible Low Smoke Zero Halogen (LSZH) flame retardant material tightly coupled to aramid strength members. • The jacket material, i.e. LSZH polymer, shall comply with <ul style="list-style-type: none"> ○ 0.76-US Navy, MIL-C-24643 (acid gas test), ○ NEC-713 (toxicity index), ○ NEC 711 (smoke index), ○ BS7211 (smoke emission), and ○ BS6425 Part 1 (acid gas emission). • Flame retardancy to UL listed type OFNR (1666).
Cable Sheath labelling	<ul style="list-style-type: none"> • The cord jacket shall be marked clearly and indelibly in white lettering every 1m with the cable owner name
Strength Member	<ul style="list-style-type: none"> • Non metallic Aramid yarns (Kevlar)
Expected Cable Performance	Max. Tensile Load : <ul style="list-style-type: none"> • 3400N short term (for fibre strain \leq50% of the proof test strain), 1150N long term. Min. Bend Radius : <ul style="list-style-type: none"> • 160mm short term, 80mm long term unloaded. Crush Resistance : <ul style="list-style-type: none"> • 300N/cm (IEC 794-1-E3) Impact Resistance : <ul style="list-style-type: none"> • 25 impacts (IEC 794-1-E4)

Fibre Cord Single Mode	Application
Single Mode 2mm or 3mm construction	<ul style="list-style-type: none"> For use as an optical jumper between OFDF drawers at the Main OFDF For use in pigtails and patchcord used in Chorus/Telecom environments providing final connection to optical equipment Can be simplex or duplex construction.
Optical Fibre Specification	<ul style="list-style-type: none"> Single mode conforming to ITU-T G.652.D or G.657.A
Core, Cladding & Jacket	<ul style="list-style-type: none"> Core/Cladding diameter : 8.3/125 micron Primary coating diameter : 245 micron Secondary buffer diameter : 900 micron Jacket at 2mm outer diameter or 3mm outer diameter.
Colour Code	<ul style="list-style-type: none"> The outer jacket colour shall be yellow.
Outer Jacket	<ul style="list-style-type: none"> Flexible Low Smoke Zero Halogen (LSZH) flame retardant material coupled to aramid strength members.
Cord labelling	<ul style="list-style-type: none"> The cord jacket shall be marked clearly and indelibly in black lettering at regular intervals with the cable owner name (if provided) and the fibre specification type. If the owner name is not supplied the connector end will be labelled with this information and the OFDF end (if used) will note the owner. Where the cord is supplied by Chorus, Chorus labelling applies.

Fibre Cord Multimode	Application
Multi Mode 2mm or 3mm construction	<ul style="list-style-type: none"> For use as an optical jumper between OFDF drawers at the Main OFDF For use in pigtails and patchcord used in Chorus/Telecom environments providing final connection to optical equipment Can be simplex or duplex construction.
Optical Fibre Specification	<ul style="list-style-type: none"> Core/Cladding diameter : 50/125 micron laser optimised NA 0.20 Refractive Index @850/1.483. @1300/1.479
Bandwidth Range	<ul style="list-style-type: none"> @ 850nm 2000 Mhz.km (IEC 60793-1-49) @1300nm 500 Mhz.km (IEC 60793-1-49)
Core, Cladding & Jacket	<ul style="list-style-type: none"> Primary coating diameter : 245 micron Secondary buffer diameter : 900 micron Jacket at 2mm outer diameter or 3mm outer diameter.
Colour Code	<ul style="list-style-type: none"> The outer jacket colour shall be aqua.
Outer Jacket	<ul style="list-style-type: none"> Flexible Low Smoke Zero Halogen (LSZH) flame retardant material coupled to aramid strength members.
Cord labelling	<ul style="list-style-type: none"> The cord jacket shall be marked clearly and indelibly in black lettering at regular intervals with the cable owner name (if provided) and the fibre specification type. If the owner name is not supplied the connector end will be labelled with this information and the OFDF end (if used) will note the owner. Where the cord is supplied by Chorus, Chorus labelling applies.