



CABLE: PGC 12 SMF OPGW  
 COLOUR CODING  
 FIBER 1 TO FIBER 12: BLUE, ORANGE, GREEN, BROWN, GREY, WHITE,  
 RED, NATURAL, VIOLET, PINK, AQUA.

STOCK CODE 407502

KEY DESIGN DATA-COMPLETE CABLE

Nominal cross sectional area	sq mm	118
------------------------------	-------	-----

GENERAL DESIGN DATA (FOR INFORMATION ONLY)

Nominal overall diameter	mm	14.5
Ultimate tensile strength or breaking load	kN	55.3
Modulus of elasticity	kgf/km	8261
Approximate total mass	kg/km	424
Short circuit current capacity (Ambient = 40° C)	sq kAs	110

OPTICAL DATA

Optical fiber type		Single mode G.652
Number of optical fiber		12
Attenuation coefficient-1310nm	dB/km	<0.40
Attenuation coefficient-1550nm	dB/km	<0.25
Cable cut-off wavelength	nm	<1260

FIBRE OPTIC INSTALLATION SAFETY RULES

FIBRE OPTIC SPLICING AND TERMINATION USE VARIOUS CHEMICAL CLEANERS AND ADHESIVES AS PART OF THE PROCESSES. NORMAL HANDLING PROCEDURES FOR THESE SUBSTANCES SHOULD BE OBSERVED. IF YOU ARE NOT CERTAIN HOW TO DEAL WITH THEM, ASK THE MANUFACTURER FOR A MSDS. ALWAYS WORK IN WELL VENTILATED AREAS. AVOID SKIN CONTACT AS MUCH AS POSSIBLE, AND STOP USING CHEMICALS IF IT CAUSES ALLERGIC REACTIONS. EVEN SIMPLE ISOPROPYL ALCOHOL, USED AS A CLEANER, IS FLAMMABLE AND SHOULD BE HANDLED CAREFULLY. THE FOLLOWING ARE SOME BASIC GUIDELINES.

- KEEP ALL FOOD AND BEVERAGES OUT OF THE WORK AREA. IF FIBRE PARTICLES ARE INGESTED THEY CAN CAUSE INTERNAL HEMORRHAGING.
- WEAR DISPOSABLE APRONS TO MINIMIZE FIBRE PARTICLES ON YOUR CLOTHING. FIBRE PARTICLES ON YOUR CLOTHING CAN LATER GET INTO FOOD, DRINKS, AND/OR BE INGESTED BY OTHER MEANS.
- ALWAYS WEAR SAFETY GLASSES WITH SIDE SHIELDS AND PROTECTIVE GLOVES. TREAT FIBRE SPLINTERS THE SAME AS YOU WOULD GLASS SPLINTERS.
- NEVER LOOK DIRECTLY INTO THE END OF FIBRE CABLES UNTIL YOU ARE POSITIVE THAT THERE IS NO LIGHT SOURCE AT THE OTHER END. USE A FIBRE OPTIC POWER METER TO MAKE CERTAIN THE FIBRE IS DARK. WHEN USING AN OPTICAL TRACER OR CONTINUITY CHECKER, LOOK AT THE FIBRE FROM AN ANGLE AT LEAST 15CM AWAY FROM YOUR EYE TO DETERMINE IF THE VISIBLE LIGHT IS PRESENT.
- ONLY WORK IN WELL VENTILATED AREAS.
- CONTACT LENS WEARERS MUST NOT HANDLE THEIR LENSES UNTIL THEY HAVE THOROUGHLY WASHED THEIR HANDS
- DO NOT TOUCH YOUR EYES WHILE WORKING ON FIBRE OPTIC SYSTEMS UNTIL THEY HAVE BEEN THOROUGHLY WASHED.
- KEEP ALL COMBUSTABLE MATERIALS SAFELY AWAY FROM THE CURING OVENS.
- PUT ALL CUT FIBRE PIECES IN A SAFE PLACE.
- THOROUGHLY CLEAN YOUR WORK AREA WHEN YOU ARE DONE.
- DO NOT SMOKE WHILE WORKING WITH FIBRE OPTIC SYSTEMS.

						DES B.C.	POWER STANDARD DRAWING			
						DRN J.COPPINS	LINE HARDWARE			
						CKD B.C.	OPTICAL FIBRE COMPOSITE OVERHEAD			
						APPD S.C.	GROUND WIRE			
						SCALE N.Y.S.	A3	DRAWING NUMBER	S01-1-4-51	AMDT
						ISSUED NOV'08				
						ALL DIM. IN mm	CAD PRODUCT - DO NOT AMEND MANUALLY			
						DRAFTING STANDARD TO A.S.1100				
1	NOTES ADDED & TABLE AMENDED	C.M.	SEPT'10	A.T.	S.C.					
0	ISSUED	J.C.	NOV'08	B.C.	S.C.					
NO	DESCRIPTION	DRN	DATE	CKD	APPD					
AMENDMENTS										

