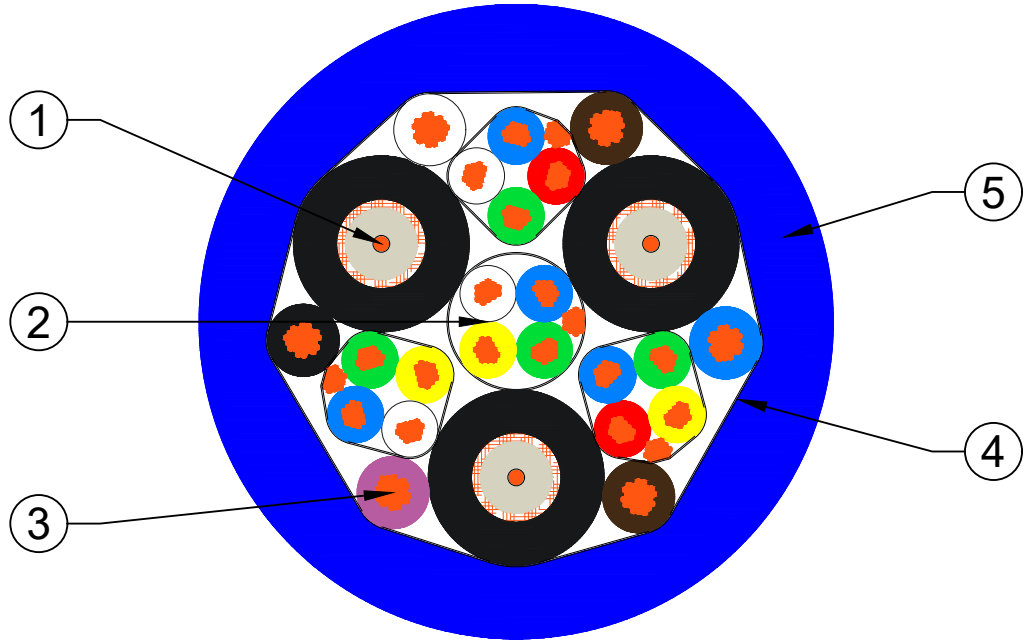


CABLE ATTRIBUTES	APPROX.
NOMINAL OVERALL DIAMETER	22.0 mm
NOMINAL RADIAL THICKNESS OF OUTER SHEATH	2.5 mm
NOMINAL LAID UP DIAMETER OF CABLE	17.0 mm
WEIGHT OF CABLE IN AIR (APPROX.)	545 kg/km
WEIGHT OF CABLE IN SEAWATER (APPROX.)	139 kg/km
WEIGHT OF CABLE IN FRESHWATER (APPROX.)	150 kg/km
AMBIENT OPERATING TEMPERATURE RANGE	-20 to 50 °C
MAXIMUM CONDUCTOR TEMPERATURE	60 °C
MINIMUM RECOMMENDED STATIC BEND RADIUS	220 mm
MINIMUM RECOMMENDED DYNAMIC BEND RADIUS	330 mm
MAXIMUM CONTINUOUS LENGTH	650 m
MAXIMUM HYDROSTATIC WORKING PRESSURE	3000 PSI

ITEM	QTY.	DESCRIPTION
1	3	75 Ω RG59 B/U SOLID CORE COAXIAL
2	4	0.5 mm <sup>2</sup> TWISTED SCREENED QUAD (16/0.2, M.D.P.E. INSULATION)
3	6	1.0 mm <sup>2</sup> CLASS 5 TINNED COPPER CONDUCTOR (32/0.2, M.D.P.E. INSULATION)
4	A/R	POLYESTER TAPE
5	A/R	POLYURETHANE SHEATH (R.T. 2.5 mm)



O.D. 22.0 mm ±1.0 mm

**DESCRIPTION :**

3 COAXIALS (75 Ω, RG59 B/U, SOLID CORE CONSTRUCTION) + 4 TWISTED SCREENED QUADS (0.5 mm<sup>2</sup>, 16/0.2 CLASS 5 TINNED COPPER WIRE, MEDIUM DENSITY POLYETHYLENE INSULATION) + 6 TINNED COPPER CONDUCTORS (1.0 mm<sup>2</sup>, 32/0.2 CLASS 5 TINNED COPPER WIRE, MEDIUM DENSITY POLYETHYLENE INSULATION) + POLYURETHANE SHEATH (R.T. 2.5 mm)

ELECTRICAL CHARACTERISTICS			
CORE CROSS SECTIONAL AREA	0.5 mm <sup>2</sup>	1.0 mm <sup>2</sup>	
MAX CONDUCTOR RESISTANCE @ 20°C	40.1 Ω/km	20.0 Ω/km	
VOLTAGE RATING	500 V AC	500 V AC	
ROUTINE TEST VOLTAGE	2 kV AC/ 3 kV DC	2 kV AC/ 3 kV DC	
VOLTAGE TEST DURATION	1 MINUTE	1 MINUTE	
AC SPARK TEST VOLTAGE	5 kV	6 kV	
CURRENT RATING IN FREE AIR @ 30°C	6 A	11 A	
INSULATION RESISTANCE 20°C @ 500 V DC	> 312 MΩ.km	> 267 MΩ.km	

ELECTRICAL CHARACTERISTICS	RG 59 B/U
NOMINAL CHARACTERISTIC IMPEDANCE	75 Ω
MAX CONDUCTOR DC RESISTANCE @ 20°C	261.1 Ω/km
RATED VOLTAGE	30 V
NOMINAL CAPACITANCE	67 pF/m
VELOCITY RATIO	66 %
NOMINAL ATTENUATION @ 100 MHz	11.8 dB/100m
NOMINAL ATTENUATION @ 200 MHz	16.4 dB/100m
NOMINAL ATTENUATION @ 400 MHz	23.9 dB/100m
NOMINAL ATTENUATION @ 800 MHz	35.4 dB/100m
NOMINAL ATTENUATION @ 1000 MHz	40.7 dB/100m

ISSUE	D.R.F.	MODIFICATION	DRAWN	DATE	CHKD	APPD	STATUS
14	13529	NEW TEMPLATE, UPDATE DESIGN	I.S.	11.06.19	S.M.	R.Z.	"CAD" DRAWING - REVISE AT SOURCE - DO NOT SCALE
13	11708	PRODUCTION RECORDS UPDATE	S.M.	27.04.17	I.S.	D.H.	CUSTOMER ISSUE NOTIFICATION:- NO
12	11213	TEST RECORDS UPDATE	S.M.	21.09.16	I.S.	D.H.	CUSTOMER NAME. N/A
11	9960	NEW TEMPLATE, UPDATE DESIGN	I.S.	13.05.15	S.M.	A.S.	CUSTOMER REF. No. N/A
10	6268	AMEND CX, ADD COLOUR CHART	M.G.	31.05.10	I.S.	D.H.	REFERENCE DOCUMENTATION
09	5214	PRODUCTION RECORDS	K.M.	21.04.09	D.H.	R.M.	
08	1042	AMEND WEIGHTS	J.R.	03.09.02	D.M.	D.M.	
07	N/A	N/A	M.C.	25.01.00	D.M.	D.M.	DRG. STATUS

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 web site: http://www.hydrogroupplc.com

**TITLE**  
 3 COAXIALS (75 Ω, RG 59 B/U) +  
 4 T.S.Q. S (0.5 mm<sup>2</sup>) + 6 CORES (1.0 mm<sup>2</sup>) + P/U SHEATH

**DRG. No.** CS 098

**STATUS** ACTIVE

**ISSUE** 14